RADIOS

MOTOROLA TALKABOUT® MH230R

The Motorola Talkabout® MH230R is the must-have communication tool for each and every outdoor professional and enthusiast. With a powerful range of up to 23 miles,* this radio is perfect for coworkers to stay in touch. The MH230 doesn't stop at just exceptional range. This lightweight unit comes packed full of essential features.

*****NOAA Weather Channel***

Tune into one of 7 NOAA channels (National Oceanic and Atmospheric Administration) on your MH230R for continuous local and regional weather broadcasting. Weather alerts will provide you with warnings of incoming weather to protect you from the danger of a sudden storm.

Full-Featured Privacy

The Talkabout® MH230R has full 22-frequency capacity with 121 privacy codes to reduce interruptions. The Motorola QT (Quiet talk) functionality allows the radios to be set so they can communicate with other compatible Motorola products, adding yet another level of distinction from other manufacturers.

Hands Free Communication

The iVOX feature allows you to speak hands-free. Acting like a speakerphone, the iVOX lets you chat without stopping what you are doing to ensure that there is never an excuse not to keep in touch.

Easy Charge -- 4 ways to charge!

Designed to fit every lifestyle, the MH230R allows you the convenience of charging four distinct ways. Use the provided desktop charger at home or a mini-USB car cable. Pack a mini-USB wall cable for recharge in a hotel or office or simply charge from your PC when no power outlet is available using a mini-USB PC cable. (Mini-USB car, wall and PC cables are sold separately.)

MH230R includes: 2 radios, 2 belt clips, 1 dual drop-in charger, 1 charging adaptor, and 2 NiMH rechargeable battery packs

*Calculated under optimum conditions. Actual range depends on terrain and conditions.

**NOAA radio service may not be available in all areas.

***Accessories available - Call for details

MH230 ..... $89.95 each

MOTOROLA RDV 2020 ON-SITE TWO-WAY RADIO

The RDX series brings workplace noise to its knees by helping to ensure exceptional audio quality in the loudest environments. Designed for noisy areas, these radios are 30% louder than previous Motorola XTN and AX models as a result of new design enhancements. This business-essential radio provides the perfect partnership of excellent audio and exceptional durability. The RDV2020 two-way radio operates on an 27 business-exclusive VHF frequencies and is 2013 FCC Narrowband ready. The default factory programming on this RDX radio is set to operate in 12.5kHz mode. 27 VHF frequencies make signals extra-secure and exceptionally clear. 219 codes, including customized PL and DPL codes to help ensure a clear signal.

- Delivers increased clarity through wind-noise reduction.
- Water-resistant
- Meets military specifications for sealing against dust, wind, shock, vibration and other adverse conditions.
- Allows users to perform programming functions and access new features.
- Bright Tricolor LED indicator shows feedback of calling or monitoring features.
- Lithium-ion battery lasts longer, with no memory "over-charge" side effects.
- Quickly copies settings from radio to radio when used with accessory.
- Voice activation for hands-free operation when used w/accessory.
- Allows users to disable and skip undesirable channels via the customer programming software (CPS)
- Accessories available - Call for details

RDV2020 ..... $259.95 each

TDS RECON

The TDS Recon data collector delivers maximum performance and reliability in a lightweight, extremely rugged design that's easy to carry. The waterproof Recon weighs just 17 ounces, meets military specifications for drops, vibration, and both high and low temperature operation, and runs Windows Mobile 6. The Recon offers industry-standard COM ports and a sunlight-readable color TFT display, so it works wherever and whenever you need it. If portability, data security and maximum operating time are crucial, you can count on the Recon.

Its innovative design provides customization options to suit your different applications. Two CompactFlash (CF) slots, embedded Bluetooth and optional 802.11g wireless capabilities add to the versatility of the Recon. Accessories & replacement parts available.

- 400MHZ model
- IP67 rating
- Weighs just 17 oz.
- Meets MIL-STD-810F standards
- Featuring Survey Pro software

Model #	Processor/Speed	Memory	Wireless
400X	Intel XScale – 400 MHz	SDRAM – 64 MB Data Storage (On-board Flash) – 256 MB	Integrated Bluetooth – Standard Integrated 802.11g – Optional
400NX	Intel XScale – 400 MHz	SDRAM – 64 MB Data Storage (On-board Flash) – 128 MB	Integrated Bluetooth – N/A Integrated 802.11g – N/A

RECON400X ..... Call for Price

RECON400NX ..... Call for Price

TRIBACHS & TRANSIT LEVELS

CST TRANSIT LEVELS

Make every leveling job faster and easier with CST/berger optical levels. CST/berger has been building quality, reliability and value into their optical instruments since 1871.

Magnification	20X
Leveling Accuracy @ 100 ft	1/4" (6mm)
Horizontal Angle	15'
Vertical Angle	1°
Working Range	200 ft (60m)
Thread Tripod Base	5/8-11
Part Number: 54-200B Includes Plumb Bob, Adjustment Tools and Case	**$495.00**
Part Number: 54-200K Kit: Includes Plumb Bob, Adjustment Tools, Case, Tripod and 8' Rod	**$575.00**

TRIBACH

54-200K

54-200B

CST TRIBRACHS

Model #	Description	Plummet	Price
61-3500	Wild-Type Tribrach	Optical—0.5-15m Focus	$395.00
61-4500TYL	Value Line Tribrach	Optical—0.5-15m Focus	$175.00
61-4635	Laser Tribrach	Laser – Dot ≥2mm@2m (6')	$209.00
Several Colors to choose: Black, Green, Grey, Yellow and TopCon Yellow. Please specify when ordering.			

LEICA GDF121 TRIBRACH W/O PLUMMET

- High accuracy, maintenance-free tribrach
- Guaranteed to effect TPS accuracy by less than 1"
- Suitable for all high angular accuracy requirements
- Torsional stiffness <1"

667304 ..... Call for Price

TRIPODS & BIPODS

INSTRUMENT TRIPODS

CST/BERGER HEAVY DUTY TRIPODS

- 5/8-11 Fastener
- Flat Head

Part #	Type	Open	Closed	Clamping Style	Price
60-ALQRI20	Aluminum	65”	42”	Quick Clamp	$99.95
60-ALWI20	Aluminum	65”	42”	Wing Screw	$99.95
60-WDF20	Fiberglass	72”	42”	Quick Clamp	$149.95
60-WDW20HV	Wood	72”	42”	Wing Screw	$209.95

60-ALQRI20

60-ALWI20

60-WDF20

60-WDW20HV

CST/BERGER CONTRACTOR TRIPODS

- Aluminum
- Quick Clamp
- 63” Open
- 38” Closed
- Weighs 9 lbs

Part #	Fastener	Price
60-ALQCI20	1/2-20, 1/4*-20	$85.50
60-ALQCI21	5/8-11	$89.95

PRISM POLE TRIPODS AND BIPODS

CST/BERGER PRISM POLE TRIPODS

- Side entry head with clamp for faster pole setup
- The Quick-Loc systems allows nonslip quick clamping
- The thumb release style allows easy adjustments with a push of a button
- All fit 1” to 1-1/2” (25mm = 38mm) poles.

Part Number	Description	Open	Closed	Price
67-4250X	Thumb Release Tripod	71-1/2” (182cm)	42-1/2” (108cm)	$186.95
67-4250	Quick Release Tripod	73” (185cm)	44” (112cm)	$179.95

SOKKIA PRO SERIES PRISM POLE BIPOD

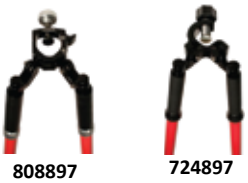
- Original quick snap bipod assembly with dual push button thumb release for rapid level adjustment
- Quick closure Pole Lock Mechanism allows fast attachments
- Accepts pole diameters of 0.75 to 1.5 in. (19-38mm)
- Quickly and effortlessly convert to a tripod by adding optional 3rd leg
- Simple few additional twist of lock knob to secure pole to bipod
- Wide stance pivot tang to improve stability by distributing center of mass
- All metal CNC construction
- Stainless steel lightweight points included
- Manufactured from aircraft grade 6061-T6 billet anodized aluminum, stainless steel and brass

808897 Thumb Release Bipod – Red.....$160.00 each

SOKKIA ECONOMY SERIES PRISM POLE BIPOD

Sokkia Economy Series bipod assembly is designed for quick setup and field durability. Complete with a carrying case for protection and a bipod leg clip.

724897 Red.....$98.95 each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AUTOMATIC LEVELS

CST/berger

CST AUTOMATIC LEVELS

Make every leveling job faster and easier with CST/berger optical levels. CST/berger has been building quality, reliability and value into their optical instruments since 1871.

Model	SAL32'N'	SAL28'N'	SAL24'N'
Magnification	32X	28X	24X
Leveling Accuracy @ 100'	1°	1°	1°
Angular Accuracy	1°	1°	1°
Working Range	400' (120m)	350' (105m)	300' (92m)
Comp Setting	±0.3"	±0.5"	±.08"
Part Number	55-SAL32ND	55-SAL28ND	55-SA24ND
Price	$399.00	$329.00	$295.00
Package Contents	Lens, Cover, Plumb Bob, Adjustment Tools, Case		

SECO
www.surveying.com

SECO # 4811 SERIES AUTO LEVELS

The #4811-Series Auto Levels feature a sturdy metal Japanese-style body with a magnetic dampened compensator and a 24X or 32X magnification. The top cover plate is easily removed for quick adjustment. It fits 5/8 x 11 flat or domed tripods. A high quality aluminum carrying case is included. It's accurate to 1/16" per 100 feet (in good conditions).

Model	#4811-24	$4811-32
Magnification	24X	32X
Color	Orange	Orange
Objective Diameter	36 mm	42 mm
Field of View Angle	1° 20'	1° 20'
Shortest Focusing Distance	0.3m	0.3m
Stadia Constant	100	100
Additive Constant	0	0
Compensator Range	±15'	±15'
Compensator Setting Accuracy	<0.5"	<0.5"
Double Run Leveling per 1km	2 mm	2 mm
Circular Vial Accuracy	8/2mm	8/2mm
Horizontal Circle	1°	1°
Weight	2.7 lb (1.22 kg)	2.7 lb (1.22 kg)
Base Plate	5/8 x 11	5/8 x 11
Part Number	4811-24	4811-32
Price	$269.95	$299.95

AUTOMATIC LEVELS

LEICA SPRINTER 250M ELECTRONIC LEVEL

The Sprinter 250M is the perfect tool for advanced construction leveling tasks. It can store up to 1,000 measurements, and the user can download and transfer these for further calculations to a PC with Excel® easier than ever before via USB. The Sprinter's onboard software, with functionalities such as Line Leveling and Cut & Fill as well as monitoring, facilitates all leveling jobs significantly.

Technical Data	Sprinter 250M
Height Accuracies	Standard deviation height measurement per 1 km double run
-Electronic Measurement	1.0/0.7* mm
-Optical Measurement	With standard aluminum E-scale/Numeral staff: 2.5 mm
-Single Staff Reading	Standard deviation: 0.6 mm (electronic) and 1.2 mm (optical) at 30 m
Distance Accuracies	Standard deviation distance measurement 100 for D < 10 m and (Distance in m x 0.001) for D > 10 m
Range	2-100 m (electronic)
Measuring Modes	Single and Tracking
Time for Single Measurement	<3 sec
Compensator	Magnet damped pendulum compensator (range +/- 10 min)
Telescope	Magnification (optical) 24x
Data Storage	Up to 1,000 points
Environmental Conditions	IP55
Power Supply	AA dry cells (4 x LR6/AA/AM3 1.5 V)
Weight	<2.5 kg
Part Number	**6002137**
Price	**Call for Price**

A BRIEF HISTORY OF LEICA GEOSYSTEMS:

The origins of Leica Geosystems date back nearly 200 years, with the founding of Kern & Co. in 1819. A little over one hundred years later, in a small empty textile mill in Heerbrugg, Heinrich Wild was busy developing the T2, the world's first truly portable opto-mechanical theodolite, and therewith, building the foundation of modern surveying. A few years later, the fledgling start-up company, Wild Heerbrugg, introduced the world's first aerial camera, the C2, along with the B2, the world's first analogue photogrammetric plotter. Over the last two centuries, Leica Geosystems, in its various forms, has grown by becoming the world's first in surveying innovation. A thirst for innovation, combined with a keen sense of entrepreneurship and an unwavering dedication to quality, has kept Heinrich Wild's vision alive throughout the decades.

The unparalleled commitment of Leica Geosystems' research & innovation is reflected in their history of "world's firsts":

1921 - First portable opto-mechanical theodolite
1925 - First aerial photography camera
1969 - First infrared-based distancer
1984 - First GPS for surveying
1991 - First industrial laser tracker
1993 - First handheld laser distance meter
2004 - First universal GPS/TPS system - Leica System 1200 First mobile CMM, Leica T-Probe & Leica T-Scan
2005 - First total station with integrated GPS - Leica SmartStation
2008 - First future proof GNSS system - Leica GPS1200+
2009 - First handheld laser distance meter with digital color display and tilt sensor - Leica DISTO D5
First total station with direct drives based on Piezo high-precision technology - The Leica TS30

AUTOMATIC LEVELS

SOKKIA

SOKKIA B SERIES AUTOMATIC LEVELS

Sokkia's B series automatic levels feature enhanced reliability under all environmental conditions and are more tightly sealed against water, dust and humidity (IPx6). Quick setup, easy sighting and superior durability against vibration and shock ensure increased productivity.

The B series levels incorporate the most precise and reliable compensator available in the market today. The optimally designed telescope provides exceptionally bright and sharp view that reduces operator's eye strain. Quick collimation and horizontal angle measurement combine for fast and easy aiming of layout and alignment tasks.

Model		B20	B30	B40
Telescope	Objective Aperture	1.7in. (42mm)	1.4in. (36mm)	1.3in. (32mm)
	Magnification	32x	28x	24x
	Minimum Focus	1.0ft. (0.3m)		
	Focusing Knob	2-Speed	1-Speed	
	Sighting Aid	Peep Sight		Gun Sight
Accuracy*	Without Micrometer	0.03in. (0.7mm)	0.06in (1.5mm)	0.08in (2.0mm)
Compensator	Type	Pendulum Compensator with Magnetic Damping System		
	Working Range	±15’		
Circular Level	Sensitivity	10’ / 2mm		
Horizontal Circle Graduation		1° (1gon)		
Water Protection		IPX4 (IEC60529)		
Weight		4.1 lb (1.85kg)	3.7lb. (1.7kg)	
Part Number		738320	738330	738340

**Standard deviation for 1km double-run leveling.*

Part Number	Description	Price
738320	B20-25 32x Automatic Level w/Horizontal Circle	$1079.95
738330	B30-25 28x Automatic Level w/Horizontal Circle	$495.95
738340	B40-25 24x Automatic Level w/Horizontal Circle	$279.95
Above instruments include Plumb Bob, Hex Wrench, Adjusting Pins, Vinyl Cover, Cleaning Cloth, Lens Cap, Operator’s Manual and Carrying Case		

DID YOU KNOW...

Automatic levels make use of a compensator, which ensures that the line of sight is always horizontal regardless of whether or not the housing of the telescope is. This makes it easier and quicker to set up than a tilting level. It also reduces the effect of minor settling of the tripod to the actual amount of motion instead of leveraging the tilt over the sight distance. These instruments became standard in the later part of the twentieth century.

~Source: Wikipedia

LASER LEVELS

LEICA RUGBY 410DG & 420DG DUAL SLOPE LASER LEVELS

Whether your work requires level, single or dual grades and high accuracy over a long distance range, the Leica Rugby's extensive features will ensure both material and labor savings, keeping you on target to increase your bottom line. The Leica Rugby Grade lasers are automatic and self-leveling for jobs of any size, large or small. They can be used for any application involving precise grade control.

6003520

765667

Model	410DG	420DG
Working Range	800 m (410DG)	1100 m (420DG)
Accuracy	±1.5 mm @ 30m	
Self-leveling	Horizontal + Grade	
Grade Capability	-5 to +25% in either axis -5 to + 15% in both axis	
Waterproof	IP57	
Weight	5 kg	
Price	**Call for Price**	
Part Number	**6003520**	**765667**

SOKKIA LP410 LASER LEVEL

Sokkia's LP410 is a 500 meter self-leveling laser created for large-scale construction applications. An expanded working range enhances productivity in large-scale construction applications. The LP410 quickly levels itself and starts rotating at the press of a button allowing for quick and accurate readings. The H.I. Alert prevents false readings and a visible red laser makes laser projection clearly visible even at a distance.

Horizontal Accuracy	10 arc seconds 1.5mm/30m, 4.8mm/100m 0.06"/100', 0.19"/300'
Self-leveling range	±3°
Typical measuring range*	Diameter: 500m (1,640') Radius: 250m (820')
Beam diameter	8mm dia. (0.32") (at projection point)
Rotation speed	600 rpm
Light source	Laser diode, 650nm wavelength (visible)
Beam output	0.9mW or less
Laser Class	Class 2 (IEC/CDRH)
H.I. Alert	Provided
Warning display	Out of self-leveling range Low battery
Dust and water protection	IP56
Power supply	R14 - C batteries x 4
Part Number	**743410**
Price	**Call for price**

LASER LEVELS

SOKKIA LP415 LASER LEVEL

Sokkia's LP415 Leveling Laser is compact, lightweight, rugged and affordable. The LP415 provides a 300-meter working range in diameter, more than enough for most construction and interior/exterior work. High-speed self-leveling at the press of a button, a visible red laser and H.I. Alert to prevent false readings make this laser ideal for the construction industry.

Horizontal Accuracy	15 arc seconds 2.2mm/30m, 7.3mm/100m 0.09"/100', 0.29"/300'
Self-leveling range	±3°
Typical measuring range*	Diameter: 300m (1,000') Radius: 150m (500')
Beam diameter	7mm dia. (0.28") (at projection point)
Rotation speed	600 rpm
Light source	Laser diode, 650nm wavelength (visible)
Beam output	0.8mW or less
Laser Class	Class 2 (IEC/CDRH)
H.I. Alert	Provided
Warning display	Out of self-leveling range Low battery
Dust and water protection	IP56
Power supply	R14 - C batteries x 4
Part Number	**743415**
Price	**Call for price**

INSTRUMENT REPAIR

Construction Safety Products Repairs Surveying Instruments!

Just take your instrument to our Castor, LA or Shreveport, LA location.

Castor, LA Location

3295 Highway 153
Castor, LA 71016

Construction Safety Products, Inc.

Shreveport, LA Location

359 Mt. Zion Road
Shreveport, LA 71106

THEODOLITES

CST DGT-10 THEODOLITE

Designed with durability and proven simplicity, CST/berger offers professional performance at an affordable price.

Magnification	30X
Resolving Power	3.5”
Field of View	1°30’
Minimum Focus	4.27-ft (1.3m)
Angular Accuracy	5 Second
IP Rating	IP55
Package Contents	Batteries, Tool Kit, Plumb Bob, Case
Part Number	56-DGT10
Price	Call for Price

SOKKIA DTX40/DTX40L THEODOLITES

Sokkias DTx40 Series represents the highest accuracy and value in Digital Theodolite technology. Set up is easy with a simple interface, an optical plummet and a tilt sensor that proves ±3 minute angle correction.

- Extremely low power consumption
- Optics centered laser for verifiable accuracy up to 50 meters away (DTx40L only)
- 633nm Class II laser beam for quick and easy alignments (DTx40L only)

SOKKIA THEODOLITE ACCESSORIES

730096 Diagonal Eyepiece 13 for DTx40 Series..... $275.00 each
730097 Solar Filter 2 for DTx40 Series .....$89.00 each
730098 Trough Compass 5 for DTx40 Series..... $249.00 each

Model Number	DT240	DT540	DT540L
Telescope Magnification	30X		
Display Resolutions	1” / 5” 0.2 / 1mgon		5” / 10” 0.2 / 1mgon
Angle Accuracy (ISO17123-3:2001)	2”	5”	5”
Display	LCD, 7 digits x 2 lines with backlight		
Control Panel Location	On Both Faces		
Compensator	±3’ (±55mgon)		
Dust and Water Protection	IP66 (IEC605		
Weight w/Handle	9.0lb (4.1kg)29:2001)		9.3lb (4.2kg)
Battery	LR6/AA Batteries x 4		
Operating Time w/Alkaline Batteries	Approx. 100 Hours	Approx 140 Hours	Approx 140 Hours
Price	Call for Price	Call for Price	Call for Price

THEODOLITES

SPECTRA PRECISION DET-2 THEODOLITE

The Spectra Precision DET-2 is a rugged, cost-effective theodolite designed to give accurate angle measurements in general construction applications. This affordable, versatile, easy to use instrument will increase your productivity when turning angles and setting elevations and lines.

- 2” Angular Accuracy
- Vertical Axis Compensation
- Dual LCD with Large Characters
- Back-lit LCD and Telescope Reticle (Crosshair)
- Simple Six Button Keypad
- Large Suite of Programmable settings
- Measurement Units in Degrees, gon, or mils
- 90° Angle Audible Notification
- Instant Conversion of Vertical Angles to Percent of Grade
- NiMH Rechargeable Battery Pack and Charger
- Alkaline Battery Pack Standard
- Battery Status Indicator
- Automatic Shutoff
- IP54 Environmental Rating

Magnification	30X
Aperture	45 mm (1.7”)
Field of View	1°30’
Focus Distance	1.35 m to ∞ (4.43 ft) ~ ∞
Focusing Range	0.5 m to ∞ (1.6 ft) t ~∞
Minimum Reading	1” or 5”
Automatic Compensation	±3’ Range
Angle of View	5°
Stadia Ratio/Constant	100 / 0
Package Contents	Plumb Bob, NiMH Rechargeable Battery Pack, Charger, Alkaline Battery Pack, Adjustment Tools, Rain Hood, Multi-Language User guide, Hard/Compact/O-Ring Sealed Carrying Case
Part Number	DET-2
Price	Call for Price

CUSTOMER NOTES:

THEODOLITES

SOUTH

SOUTH ELECTRONIC THEODOLITES

Specifications	**ET-02**	**ET-05**
Image		
-Magnification	30X	
-Effective Aperture	45mm	
-Resolving Power	3”	
-Field of view	1° 30’	
-Min Focusing Distance	1.4m	
-Stadia Ratio	100	
-Stadia Constant	0	
-Tube length	157mm	
Angle Measurement		
-Reading System	Absolute Encoding	
-Minimum Reading	1”/5” Selectable	
-Accuracy	2”	5”
-Horizontal Angle	Dual	
-Vertical Angle	Dual	Single
LCD Display Type	2 Sides	
Internal Memory	Space for 256 pairs of Horizontal and Vertical Angles	
Power/Batteries	Rechargeable Ni-H battery/AA battery	
Operating Time	10 Hours	
Part Number	**ET-02**	**ET-05**
Price	**Call for Price**	

PRISMS

CST/BERGER OPTIMA® SERIES ALL-METAL PRISMS

Designed to optimize performance and maximize value. Pay less without settling for less. The optimum performance Prism with a lifetime warranty. Features:

- 0/-30mm Constant Prism System.
- All metal holder and target warranted for life.
- Fully compatible with leading manufacturers
- Tension adjusting brass knob.
- Nickel plated brass 5/8-11 bayonet adapter

63-1010V Value Line Optima, Single Tilt Prism Assembly ..... $129.95 each
63-1010 Single Tilt Prism Assembly with Target ..... $179.95 each
63-1040 30/40mm Prism Assembly with Target ..... $219.95 each

CST/BERGER 0/-30MM UNIVERSAL POLYCARBONATE PRISMS

These popular value priced 62.5mm (2 -1/2") diameter prisms have been further improved to provide long-term trouble-free use. New can, lens cover, yoke rib design and polycarbonate material make these prism assemblies an outstanding value.
Features:

- Aluminum yoke and Delrin™ washers for excellent wear and long-term performance
- Precision ground glass up to 2 arc seconds
- Fully compatible with leading manufacturers
- Single tilt holder tilts to 350°
- Stainless steel hardware
- Nickel plated brass 5/8 -11 bayonet adapter
- Prism canister and holder/target molded from durable lightweight polycarbonates

63-2010 Single Tilt Prism Assembly (0/-30mm)/Plastic Yoke ..... $179.95 each
63-2010M Single Tilt Prism Assembly (0/-30mm)/Metal Yoke ..... $189.95 each
63-2011 Replacement Prism in Canister (2-1/2"/62mm) ..... $139.95 each
63-2012 Replacement Yoke, Single Tilt Mount Only (Plastic) ..... $72.95 each
63-2012M Replacement Yoke, Single Tilt Mount Only (Metal) ..... $81.98 each

CST/BERGER MINI PRISMS (25.4MM/1" DIAMETER)

The Peanut Pack™ ™ is a complete and versatile mini system. Peanut Pack™ includes a complete Tilting Targeted Mini Prism Assembly – plumb bob prism mount, prism point and padded Cordura case with metal belt hook. The Peanut Pack™ provides low cost versatility for shots up to 3000 feet (approximately 900 meters). It's small and light which makes it priceless on shots that involve rough terrain. The versatile mounting options create more freedom and speed in setup. The Peanut Pack™ is virtually indestructible under most working conditions.

Some important features are:

- 0/300mm dual offset
- Prism diameter: 25.4mm (1")
- Precision prism ground up to 2 arc seconds
- Dual-sided tilting target
- Black anodized aluminum can
- New o-ring gasket, improved sealing and durability
- All holders have an on board bubble level
- Stainless steel hardware
- Holders molded from durable and lightweight polycarbonate
- Can's point permits measurement of corners
- Custom made lens cover

65-1500 ..... $149.95 each

CST/BERGER METAL TRIANGULAR, 0/-30MM TRIPLE ASSEMBLY PRISM

- Aluminum holder, target and yoke
- Three hermetically sealed 2-1/2" (62.5mm) precise prisms
- Nickel plated brass 8/-11 bayonet adapter

63-2600 ..... $416.95 each

SOKKIA STROBE PRISM ASSEMBLY

62mm Strobe Prism Assembly with a 5-1/2" x 7" Target Fluorescent Orange. It works perfectly in low light conditions and all the electronics are housed in the prism canister. The battery is a Sanyo CR-1/3N; good for over 20 hours of use. Comes with a protective carry case for the target or complete system.

724100 ..... $147.00 each

CST/BERGER TRIPLE PRISM BAG

- Heavily padded for Single or Triple Prism Assemblies
- Orange

Part Number	Description	Dimensions (H x W x D)	Price
61-2540	Triple Prism Bag	9" x 7" x 2.5"	$34.95
61-2541	Small Prism Bag	8.5" x 8.5" x 4.5"	$34.95
61-2542	Large/Tall Prism Bag	16.5" x 10.5" x 8.5"	$46.95

MAGNETIC LOCATORS

SCHONSTEDT INSTRUMENT COMPANY

SCHONSTEDT GA-52CX MAGNETIC LOCATOR

The GA-52Cx Locator detects the magnetic field of iron and steel objects and energized power lines. Provides audio detection signals that peak in frequency when the locator's tip is held directly over the target. Designed for one-hand operations, the On/Off-Sensitivity and Volume controls are located on the underside of the cover on both locators. This provides easy access, protects the knobs and contributes to their overall ruggedness and dependability. The GA-52Cx comes standard with a custom case designed to withstand the rigors of field use.

- Audio Output
- 5 Levels of Sensitivity
- No response to aluminum, brass, or copper
- Patented HeliFlux® sensors
- Modular construction; high performance components
- 7-year warranty

GA-52CX..... $765.00 each

SCHONSTEDT XT MAGNETIC LOCATOR

One hand operation makes finding faster, providing both audio and visual (XTd model) indication of ferrous objects up to 16 feet underground. And the new XT follows the Schonstedt tradition of ruggedness and reliability. Detect the magnetic fields of all ferromagnetic objects property markers, manholes, septic tanks, well casings, valve boxes, cast iron pipes, steel drums, unexploded ordnance up to sixteen feet below the surface.

- One hand operation
- Operates in both retracted and extended modes
- Fingertip control of volume and sensitivity
- Quick change battery compartment
- Battery indicator on both models
- Comes with Holster & Belt
- One Handed Operation
- Battery Replacement in grip (does not expose electronics)
- Most Ergonomic
- Lightweight, easy-to-use-design
- Audio & Visual Output
- Battery & Sensitivity Indicators
- Continuous levels of Sensitivity
- Operates in both retracted and extended modes
- Signal Strength and Polarity Indications
- No response to aluminum, brass, or copper
- Patented HeliFlux® sensors
- Modular construction; high performance components
- 7-year warranty

GA-92XTI ..... $795.00 each
GA-92XTD..... $895.00 each

SCHONSTEDT TRACEMASTER II PIPE AND CABLE LOCATOR

- 4 Active frequencies: Low, Medium, High, Extra High
- Monitor and Control the transmitter remotely from the receiver via RF link
- Passive detection of 50/60 Hz
- One button depth measurement
- Digital readout display of signal strength
- LCD displays left, right and "on-target" indications, as well as transmitter and receiver battery status
- 60 Hours operational life (intermittent usage)
- Lightweight, easy to use design
- DSP (Digital Signal Processing) which is easily upgraded as new features are developed
- 3 Year Warranty

SCHONSTEDT XTpc PIPE & CABLE LOCATOR

TMS-001-AF ..... Call for Price

SCHONSTEDT XTPC PIPE AND CABLE LOCATOR

The XTPC features simple one hand operation with all controls in easy reach of your thumb. The controls and the LCD display area are large and easy to understand. Clear direction arrows facilitate easy locating and foolproof centering. The XTpc operates in passive mode, three different active modes (conductive, inductive and clamp), and a sonde mode. This extremely versatile locator also features single button depth calculation. Simply place the receiver directly over the target and press the depth button. The XTPC is made in two frequencies. In general, 82kHz is useful in tracing gas and water lines while 33kHz is a better choice for tracing electrical lines.

- One button depth measurement
- Digital readout display of signal strength (peak)
- LCD displays left, right and "on-target" indications (null)
- Transmitter 8-Hours operational battery life (intermittent usage)
- Audio & Visual Output
- Battery & Sensitivity Indicators
- Operates on a passive mode, three different modes (conductive, inductive and clamp), and a sonde mode.
- Auto Transmitter Power off
- Ergonomic & lightweight
- 3-year warranty

XTPC-82-512-SC 82 KHz Frequency..... Call for Price
XTPC-33-512-SC 33 KHz Frequency..... Call for Price

SCHONSTEDT GA-72CD MAGNETIC LOCATOR

The GA-72Cd Locator detects the magnetic field of iron and steel objects and energized power lines. It provides audio detection signals that peak in frequency when the locator's tip is held directly over the target. The GA-72Cd has the option of nulling or peaking.

- Most Popular for UXO and Demining Applications
- Audio & Visual Output
- Battery & Sensitivity Indicators
- Levels of Sensitivity
- 3-digit LCD readout
- Signal Strength and Polarity Indications
- No response to aluminum, brass, or copper
- Patented HeliFlux® sensors
- Modular construction; high performance components
- 5-year warranty

GA-72CD ..... $914.95 each

MAGNETIC LOCATORS

CST/berger

MAGNA-TRAK® MAGNETIC LOCATORS

Locate ferrous objects underground, underwater, or in snow. Ergonomically designed for complete one-handed operation.

- Length: 42-3/4”
- Weight 3 lbs
- Waterproof and water-resistant housing
- Easy access battery compartment
- On/Off Volume and Sensitivity Controls
- Strong, lightweight aluminum tube with durable hard rubber tie
- “High-Tech” magnetic toroidal sensors and electronic balancing circuitry

Model	MT100	MT101	MT102	MT200	MT202
Erase Feature			✓		✓
Power Line Indicator			✓	✓	✓
Sensitivity Control	✓	✓	✓	✓	✓
Volume Control	✓	✓	✓	✓	✓
LCD Digital Display	✓		✓	✓	✓
Low Battery Indicator	✓		✓	✓	✓
Analog Bar Graph				✓	✓

Item Number	Description	Price	2+
19-550	Magna-Trak 100 w/ Soft Case	$642.95	--
19-551	Magna-Trak 100 w/Hard Case	$662.95	--
19-555	Magna-Trak 101 w/Soft Case	$612.95	--
19-556	Magna-Trak 101 w/ Hard Case	$634.95	--
19-557	Magna-Trak 102 w/ Soft Case	$742.95	--
19-558	Magna-Trak 102 w/Hard Case	$767.95	--
19-200SC	Magna-Trak 200 w/Soft Case	$684.95	$639.95
19-202SC	Magna-Trak 202 w/Soft Case	$746.95	$697.95

MT100

MT101

MT102

MT200

MT202

MAGNETIC LOCATORS

LEICA DIGICAT 550I PIPE AND CABLE LOCATOR

State-of-the-art digital signal processing for precision service locating. Automatic controls making the Digicat easy to use, requiring minimal user experience. Starts in power mode, detecting current carrying services first for maximum operator safety. New Hazard Zone feature which indicates the presence of a shallow buried service in power mode. (Within approximate 30 cm alerting to the increased risk). Digicat 550i model has the added benefit of service depth estimation to 3 m for additional survey information. Highly visible digital LCD display with built-in light sensor, automatically enabling the backlight in dark conditions. Robust, light-weight design, specifically engineered for tough site conditions.

- AutoMode unique detection mode which combines power and radio modes, providing a more comprehensive location mode making cable detection easier and safer.
- 33 kHz Mode detects a 33 kHz applied to a service produced from the Digitex signal generator.
- 8 kHz Mode detects and 8 kHz applied to a service produced from the Digitex signal generator.
- Radio Mode detects signals originating from distant radio transmitters. These radio signals penetrate the ground and are re-radiated by buried metallic cables and pipes.
- Power Mode detects power signals radiated by energized (current carrying) services.
- 1 year standard manufacturer's warranty.

780232.....**Call for Price**

LEICA DIGITEX 8/33 KHZ SIGNAL GENERATOR

Improves buried service detection by applying a traceable signal to conductive services where no signal is present. Includes batteries, connection cable set, earth spike and user manual.

731049.....**Call for Price**

PLANIMETERS

L10 ..... **$224.95 each**

L30 ..... **$305.95 each**

LASICO SERIES 10 AND 30 POLAR COMPENSATION PLANIMETERS

- LASICO Polar Compensating Planimeters with mechanical read mechanism are among the most precise, rugged and economical instruments available.
- A tilt body design and a parallax free tracer lens permit convenient operation without bending over during tracing and readout.
- Standard Features Include: Choice of lens tracer, built-in vernier magnifier for measuring wheel, zero setting wheel, pole weight, case, instructions and test ruler.
- Special features of series 10: Fixed tracer arm, fixed pole arm and English calibration.
- Special features of series 30: Adjustable, graduated tracer arm, adjustable pole arm, English and metric calibration

Models	10	30
Max Resolution cm^2	0.01 in^2	0.009 in^2/0.05 sq cm
Max measuring range (largest rectangle for pole outside figure	6" x 13"	12" x 30" or 30cm x 76cm
Length of tracer arm	4.25"	10" / 25.4cm
Length of pole arm	10"	13.5" / 34cm
Instrument Accuracy	±0.2%	±0.2%
Calibration	English	English/Metric

PIPE LASERS

SPECTRA PRECISION LASER PIPE LASERS

The Spectra Precision® Laser DG711 and DG511 pipe lasers are completely waterproof and designed to ensure easy cleanup. Fast setup and easy to use with straightforward, "no-instructions-required" controls. Through the Service Alert feature, they keep track of their own maintenance needs, indicating at pre-set intervals when it's time for a check-up.

Featuring a very rugged design and a variety of unique technological capabilities. These Pipe Lasers stand up to corrosion from acids, chemicals, salts and other destructive underground elements as well as to the physical abuse typical in the construction industry.

- Widest automatic self-leveling range available for quick, easy setups regardless of grade.
- Line Alert feature alerts when the setup line has been disturbed, ideal for working in high-vibration or wet conditions.
- Ability to raise the beam outside of the trench for fast line setup or checking, eliminating the need to move the excavator off line during setup of the pipe laser.
- Patented Target Lens transfers the beam up at an angle for easy viewing by the pipe layer.

Model	**DG711**	**DG511**
Grade Range	-15% to +40%	
Self-Leveling Range	Complete grade range (no rough leveling required)	
Line Range	20°	
Line Center	Yes	
Grade Zero and Quick Grade	Yes	
Line Set/Check	Yes	
Line Alert	Yes	
Temperature Compensation	Yes	
Grade Compensation	Yes	
Maintenance Interval Notification	Selectable intervals: 3, 6, 12, 18 or 24 Months	
Laser Output	4.5-5mW (maximum Allowable	
Housing Material	Armored Die Casting	Hard Anodized Aluminum
Battery Type	NiMH / 60 Hours with Daily Setup at 20° C	
Waterproof	Continuous Submersion at 3m (10ft)	
Wireless Remote Specifications		
Functionality	7 button Power, Line and Grade Adjustment, Line Set	3 Button Power, Line Adjustment
Through the Pipe Range	225 m (750ft)	
Front/Over the Top Range	150 m (750 ft)	
Rear Range	10 m (30 ft)	
Battery Life (normal operation)	2 Years/24 Months	3 Years/36 Months
Part Number	**DG711**	**DG511**
Price	**Call For Price**	**Call For Price**

PIPE LASERS

LEICA PIPER SERIES PIPE LASERS

Powerful and compact, the Leica Piper is the only pipe laser that fits inside a 100 mm (four inch) pipe. It is built with solid cast-aluminum housings, and is loaded with features that will improve productivity and minimize downtime on the jobsite.

It is ideal anywhere line and grade is required. It has a large clear display that makes it easier for contractors to read grade, line position, battery status, and level indication. The intelligent battery monitors the amount of charge/discharge so that contractors always know how much battery life they have left. The Leica Piper's bright, visible beam is focused to maintain its crisp, clear spot and size over long distances. Automatic grade compensation easily identifies and corrects grade errors. It automatically self-levels over a full grade range, and eliminates the need to tip the laser for steep slopes.

The Piper 200 features the Alignmaster function, a patented automatic targeting system that searches and finds the target for fast second day setups.

Model	Piper 100	Piper 200
Beam	Highly visible red beam	
Display	Large, easy to read LCD display	
Alignmaster	No	Yes
Line and Grade Locks	Yes	
Wide Line Adjustment	Yes	
Self-Leveling	Over full range	
Remote Control	Yes, wireless	
Housing	Rock Solid Metal	
Battery Pack	Rechargeable Lithium-Ion	
Waterproof	100%	
Part Number	**750974**	**748710**
Price	**$4495.00**	**$4895.00**

LEICA GEB221, LI-ION BATTERY

- High output battery for all Builder instruments and Piper 100/200
- 7.4V/ 4.4 Ah

733270..... Call for Price

LEICA GLK211 BATTERY CHARGER

- Simple, low cost charger for GEB221 and GEB211 Li-Ion batteries
- Includes car adapter cable

734-752 ..... Call for Price

CUSTOMER NOTES:

PIPE LASERS

CST/BERGER LMPL-20 ELECTRONIC PIPE LASER

The LMPL-20 is constructed from cast aluminum and is nitrogen purged, then sealed for total waterproofing. All internal components of the Pipe Laser are protected with a rugged aluminum housing, so the LMPL-20 can handle harsh demands.

- Battery pack loads from the top
- Large, backlit LCD display
- Dual-Wave Technology (IR and RF frequencies)
- Two-way RF control
- Heavy duty removable handle
- Cross Axis Self-Leveling
- Auto Line Centering
- Auto Grade Zeroing
- LED Plumb Reference

Laser Diode	635nm
Operating Range	Above Ground: 800ft (240m) Under Ground: 300ft (92m)
Grade Range	-15%, +40%
Line Range	±15%
Horizontal Accuracy	±10 arc seconds
Temperature Drift	1 arc second per degree C
Power	Rechargeable NiMH Battery Pack or Alkaline Batteries
Package Contents	RF Remote Control, Target Set, Hard Shell Carry Case, Rechargeable NiMH Battery Pack, Alkaline Battery Pack, 12v External Power Cord, Leg Set for 8-10-12” Pipe, Instruction Manual
Part Number	**59-LMPL20**
Price	**Call for Price**

SOKKIA SP1 PIPE LASER

Sokkia's SP1 pipe laser provides high precision in grade settings thanks to the absolute encoder system that detects the laser beam angle with a greater accuracy than other sensors. A robust and watertight housing, bright laser spot, affordable cost and the wide variety of accessories make the SP1 an ideal tool for all pipe-laying applications.

Horizontal Accuracy	±10” (1.5mm@30m)
Grade Range	-15 to +40% (0.001% increments)
Self-Leveling Range	Beam axis: ±10% Cross axis: ±4°
Water Protection	At a depth of 16.4ft (5m) for a minimum of 24 hours (far exceeding IPX7 specification)
Weight w/handle and Battery	8.4lb (3.8kg)
Part Number	**743200**
Price	**Call for Price**

ROTATION LASERS

CST/berger

57-ALGRD

57-ALH

57-LD500

57-LD440

57-LD400

CST ROTARY LASER DETECTORS

Model	ALGR Self-Leveling	ALH Non-Self-Leveling
Horizontal Accuracy @ 100’	1/16” (1.5mm)	1/16” (1.5mm)
Rotation Rate (Preset Speeds)	0-1000 RPM	600 RPM
Range Indoors	660 ft (200m)	N/A
Range Exterior with Detector	2800 ft (850m)	2800 ft (850m)
Leveling Type (Degrees)	Electronic ±5°	Electronic ±5°
Beam Rating	Class 2M, 635nm	Class 2m, 650nm
Scanning w/Spot Mode	Yes	N/A
Vertical Self-Leveling @ 100’	1/8” (3.2mm)	N/A
Laydown Beam Positioning	Yes	N/A
Slope/Grade Capability (±10%)	Dual Dial-In	Single
Battery Type	4-D Cell	4-D Cell
Water/Dust Protection	IP67	IP67
Package Includes	Remote, LD440 w/Clamp, Batteries, Case	LD440 Detector w/Clamp, Batteries, Case
Part Number	**57-ALGRD**	**57-ALH**
Price	**$1995.00**	**1195.00**

CST ROTARY LASERS

Model	LD500	LD440	LD400
Range	600 ft (180m)	1400 ft (425m)	1000 ft (152m)
Bandwidth (mm)	5/10/25	.75/1.5/3.0	.75/1.5/3.0
LCD Display(s)	1 Side	2 Sides	2 Sides
Visual LED’s	Yes	Yes	N/A
Audible	Med/High	Med/High	Med/High
Display Channels	7	7	7
Strobe Shield™	Yes	Yes	N/A
Package Includes	HD Rod Bracket (57-RB500), Pin, Case	HD Rod Bracket (57-RB440)	HD Rod Bracket (57-RB400)
Part Number	**57-LD500**	**57-LD440** **57-LD440-RT (Red)**	**57-LD400** **57-LD400YEL (Yellow)**
Price	**$595.00**	**$330.00**	**$295.00**

ROTATION/CONSTRUCTION LASERS

CST SELF-LEVELING ROTARY LASERS

CST/berger

57-RL25H

57-RL25HV

- Rugged Design (IP56 rating) to handle the extreme jobsite conditions
- 3/32" accuracy and extended range of 200' (diameter)
- Single axis slope control to change the slope of the laser in complex leveling applications
- Anti-Drift System alerts when laser has drifted from benchmark
- Durable housing design with thick over-mold in key impact areas
- Water and dust protected to withstand the toughest jobsite environment
- More runtime -- up to 85 hours of runtime with (3) D-cell alkaline batteries
- 57-RL25HV features vertical beam for precise layout of 90° corners & plumb applications

Model	RL25H	RL25HV	LL20
Description	Exterior Rotary Laser	Interior/Exterior Rotary Laser	Self-Leveling 360° Exterior Laser (up to ±4°)
Accuracy	Up to 3/32” @ 100’	Up to 3/32” @ 100’	Up to 3/16” @ 100’
Range	Up to 2000’	Up to 2000’ft (up to 200’ w/o detector)	Up to 530’ (65’ diameter horizontal w/o detector)
Laser Type	630-670 nm=1mW	630-670 nm =5 mW	630-670nm
Laser Class	2M	3R	2
Package Contents	Laser, Laser Detector w/Bracket, Carrying Case and Batteries	Laser, Remote Control, Adj. Wall Mount, Magnetic Target, Laser Glasses, Carrying Case and Batteries	LD3 Detector, Hard Carrying Case, Rod Bracket and Batteries
Part Number	**57-RL25H**	**57-RL25HV**	**57-LL20**
Price	**$895.00**	**$895.00**	**$775.00**

CONSTRUCTION LASERS

Leica

LEICA RUGBY 50 CONSTRUCTION LASER

Designed for general construction, the Leica Rugby 50 is a tough, affordable laser; ready to work when the user is. The Leica Rugby 50 has only one button. Press the button, wait until it self-levels and the head starts rotating, then work can begin. It will continue to self-level over the course of the day to ensure that work is accomplished reliably and accurately. H.I. Alert features monitor the Leica Rugby 50 as it works and shuts it down if it senses a bump or movement of the tripod.

- Simple, one-button operation
- Automatic horizontal self-leveling
- Self-leveling range: ±5°
- Infrared beam (780nm)
- 1000’ (300m working diameter with sensor
- Accuracy: ±3/32” per 100’ (±2.6mm per 30m)
- H.I. (elevation)alert: automatic
- Rotating speed: 10 RPS (600 RPM)
- Battery life: 60 hours alkaline, 35 NiMH
- Class I Laser Product
- Waterproof to IP55 standard

6003466 w/Alkaline Batteries ..... Call for price

LEICA CONSTRUCTION LASERS

LEICA RUGBY 200 CONSTRUCTION LASER

The Leica Rugby 200 is a heavy-duty, horizontal and vertical self-leveling laser. Completely sealed, the Rugby 200 is ideal, inside and out, for both general and interior construction applications. Similar to the Rugby 100/100LR it is featured with a knockdown warranty. You can use it for installing ceiling grids and layout out walls, installing raised access floors as well as exterior site preparation.

- 10” accuracy
- Fully automatic self-leveling
- Variable head speeds
- Selectable scan modes
- Manual with cross-axis self-leveling
- Automatic H.I. elevation alert
- Plumb reference point feature
- Sealed and waterproof
- Two year plus knockdown warranty

Model	**Rugby 200**
Working Range	Up to 1000’ / 300 m
Accuracy	±1/16” @100’ / ± 1.5 mm @30 m
Self-leveling	Horizontal + Vertical
Waterproof	IP56
Scan function	Yes
Remote control	Yes
Two year warranty	Yes
6003512 -- Rugby 200 w/Alkaline Batteries	**Call for price**
6003513 – Rugby 200 w/Rechargeable Batteries	**Call for price**

LEICA RUGBY 100 CONSTRUCTION LASER

The Leica Rugby 100 is an automatic self-leveling rotating laser for general construction and machine control. They are designed to be rugged yet easy to use. They can make quick work of concrete forming, pad placement and framework, setting foundations and footings, etc.

- Two–year knockdown warranty
- Automatic horizontal self-leveling
- Self-leveling range: ± 5°
- 1000’ (300m) working diameter with sensor
- Accuracy ± 1/16” per 100’ (± 1.5 mm @30 m)
- Manual: up to 10%
- H.I. (elevation) alert: automatic
- Two head speeds: 5 & 10 RPS
- Battery Life: 60 hours alkaline, 35 NiMH
- Class II laser Product
- Waterproof to IPX6 standard

6003493 w/Alkaline Batteries ..... Call for price
6003496 w/Rechargeable Batteries ..... Call for price

CUSTOMER NOTES:

Construction Safety Products, Inc.

SPECTRA PRECISION LASERS

SPECTRA PRECISION® LASER LL100 LEVEL

The Spectra Precision® Laser LL100 is a complete one man leveling crew in a case. A complete system is contained in a single hard-shelled, portable carrying case - the laser, receiver, clamp, tripod, and grade rod - for easy transportation, storage, and use. Automatic, self-leveling ensures fast, accurate setups. Easy, one-button operation requires minimal training.

The LL100 laser is capable of handling a wide variety of elevation control applications. Versatility is added with single-axis manual slope capability for setting out driveways, ramps, and residential drainage lines. It is rugged enough for the toughest jobsite and designed to survive a 3 foot drop onto concrete. The LL100 is backed by a 3-year instant over the counter exchange warranty.

- One person elevation control up to 500 ft away increases productivity
- Height of Instrument alert stops laser rotation if elevation changes occur to avoid erroneous readings
- HR320 receiver offers 2 accuracies and has grade displays front and rear

Laser Source	650 nm visible, Class 2
Laser Accuracy	±1/8” at 100’
Operating Range (Diameter) w/HR320 Receiver	1000’ (300m)
Self-Leveling Range	±5 degrees
Compensation Method	Electronic Self-Leveling
Single Axis Manual Slope Mode	Yes
Power Source	2-D Alkaline
Battery Life	80 hours
Rotation Speed	600 RPM
Water Resistant	Yes, IP54 sealing
Part Number	**LL100** w/HR320 Receiver and Clamp
Price	**$633.75**

SPECTRA PRECISION® LASER LL300 LEVEL

The Spectra Precision® Laser LL300 features a rugged design with "hard hat" rotor protection that provides superior drop and weather protection. Built to withstand severe drops of up to 3 ft directly onto concrete, or up to 5 ft when pushed over on a tripod means less downtime and cost due to damage caused by accidental drop or tipover and lower repair costs over the life of the product. The LL300's fully automatic self-leveling capability provides fast, accurate setup. Rechargeable Ni-Cad battery pack or alkaline batteries keeps the unit working with no downtime due to power loss. Single cross-axis manual slope mode with cross-axis self-leveling allows grade matching for basic slope work, while maintaining accuracy in the cross-slope.

- Maintains performance even in rainy, dusty and other harsh job site and weather conditions
- Increases flexibility with remote control slope option

Laser Source	630-670 nm visible, Class 3A/3R
Laser Accuracy	3/32” per 100’ 15 arc seconds
Operating Range (Diameter)	1300’ (400m)
Self-Leveling Range	±5 degrees
Compensation Method	Electronic Self-Leveling
Single Axis Manual Slope Mode	Yes w/Self-Leveling Mode on the 2nd axis
Power Source	4-D Rechargeable or Alkaline
Battery Life	Rechargeable: 45 hours, Alkaline: 90 hours
Rotation Speed	600 RPM
Water Proof	Yes, IP54
Part Number	**LL300** w/HL450 Receiver and Clamp
Price	**$775.95**

SPECTRA PRECISION LASERS

SPECTRA PRECISION® LASER LL400 LEVEL

The fully automatic, self-leveling Spectra Precision® Laser LL400 Laser Level sets a new standard in rugged reliability, handling a wide variety of general and concrete construction applications. Even in tough jobsite conditions, the LL400 consistently delivers reliable, accurate performance to increase your overall productivity and cost-savings. The LL400 Laser Level features easy, one-button operation for basic leveling and provides reliable, highly accurate, long-range measurements, even for machine control applications. The LL400 is designed to be durable and reliable, day in and day out, and can be operated in the rain for superior drop and weather protection. The rugged LL400 can withstand drops of up to 3 feet onto concrete and tripod tipovers up to 5 feet. This strength, combined with full weatherproofing and dust-proofing, results in reduced downtime and lower repair costs.

- One-person operation reduces labor costs.
- Highly accurate at 1/16 inches at 100 feet for precise measurements on the job
- Temperature-calibrated, high accuracy for consistent performance across larger jobsites
- Ability to be used up to 2600 feet diameter with a detector makes the unit ideal for small to large projects
- Single-axis slope mode offers fast setup and grade match to a reference mark for permanent and accurate ceiling slope reference
- Energy-efficient design offers choice of rechargeable or alkaline batteries for lower operating costs
- Long-range remote control gives you quick access to all the laser functions without returning to the transmitter
- Customizable to your needs with choice of two receivers

Laser Source	650 nm visible, Class 2
Laser Accuracy	±1/16” at 100’
Operating Range (Diameter) w/HL700 Receiver	2600’ (800m)
Self-Leveling Range	±5 degrees
Compensation Method	Electronic Self-Leveling
Single Axis Manual Slope Mode	Yes (both axes)
Power Source	4-D Alkaline, NiMH Optional
Battery Life	Alkaline: 90 hours, NiMH: 55 hours
Rotation Speed	600 RPM
Dust and Waterproof	Yes, IP66
Part Number	**LL400** w/HL700 Receiver and Clamp
Price	**$1225.00**

SPECTRA PRECISION® LASER LL500 LEVEL

The Spectra Precision® Laser LL500 Laser Level is a one-person leveling system designed for longer range measurements across your entire site. Accurate, stable and reliable, the LL500 features a 1,600 ft (500 m) working diameter which increases productivity by reducing the need for multiple setups on a large job site. The rugged LL500 is self-leveling with built-in "out-of-level" shutoff that maintains accuracy over the entire work area and minimizes errors. Visible "spotting" beam determines receiver mounting placement makes it faster to find the on-grade position.

- High accuracy with temperature compensation provides highly stable, repeatable accuracy even under large temperature changes
- Alkaline or rechargeable batteries keep the unit working and minimize downtime due to power loss
- Self-leveling with built-in shut off for increased accuracy over the entire work area and reduced errors

Laser Source	670 nm visible, Class 2
Laser Accuracy	±1/16” at 100’ ±10 arc seconds
Self-Leveling Range	±10 arc minutes
Power Source	4-D Alkaline, Optional NiCad
Battery Life	Alkaline: 175 hours, NiCad: 75 hours
Part Number	**LL500** w/HL700 Receiver and Clamp
Price	**$1170.95**

SPECTRA PRECISION LASERS

SPECTRA PRECISION® LASER HV101 – INTERIOR & EXTERIOR MULTI-PURPOSE HORIZONTAL/VERTICAL

The automatic, self-leveling Spectra Precision® Laser HV101 Laser is a professional tool with an economical price tag. The HV101 laser is capable of handling a wide variety of horizontal, vertical and plumb applications. It is rugged enough for the toughest jobsite and designed to survive a 3 foot drop onto concrete. The HV101 is backed by the industry's only 3-year instant over the counter exchange warranty.

- Automatic self-leveling increases productivity with fast setups and minimal training
- Beam is easily visible even in brightly lit conditions
- Split beam enables plumb point transfer and 90-degree layout
- Remote control offers scanning, speed control, slope setting, and alignment control for fast one person setups

Laser Source	<5 mW @635 nm, Class 3A
Laser Accuracy	±1/8" at 100' ±20 arc seconds
Operating Range	1000' (300m) w/receiver 100' (30m) minimum visual
Self-Leveling Range	±5 degrees
Compensation Method	Electronic Self-Leveling
Power Source	2-D Alkaline
Battery Life	50 hours
Rotation Speed	4 Preset Speeds, 0, 50, 200, 600 RPM
Water Resistant	Yes, IP54 sealing
Part Number	**HV101** w/M101 Wall Mount, Remote Control, HR150U Receiver and Clamp, 1176 Coiling Target, Laser Glasses
Price	**$633.75**

SPECTRA PRECISION™ LASER HV301 – HORIZONTAL/VERTICAL

The automatic, self-leveling Spectra Precision™ Laser HV301 is an economical laser with exceptional versatility and visibility. Whether your job site is indoors or outdoors, the HV301 is capable of handling a wide variety of horizontal, vertical and plumb applications. Its high-visibility beam enables 90-degree simultaneous rotating and plumb/perpendicular references.

- Composite material housing is rugged and lightweight, and is capable of withstanding a drop of up to 3 feet
- Fully automatic self-leveling in both horizontal and vertical for easier setups
- Long-range remote control operation provides convenient access to key functions across the jobsite
- Flexible power options, combined with low battery warnings, ensure you can always keep on working

Laser Source	<5 mW Nominal
Laser Accuracy	±3/32" at 100' ±15 arc seconds
Self-Leveling Range	±5 degrees
Compensation Method	Electronic Self-Leveling
Power Source	Rechargeable or Alkaline Batteries
Battery Life	Alkaline: 90 hours, Rechargeable: 40 hours
Rotation Speed	4 Preset speeds from 0 to 600 RPM
Water Resistant	Yes, IP54 sealing
Part Number	**HV301** w/HL450 Receiver and Clamp
Price	**$1075.00**

SPECTRA PRECISION LASERS

SPECTRA PRECISION® LASER GL412 AND GL422

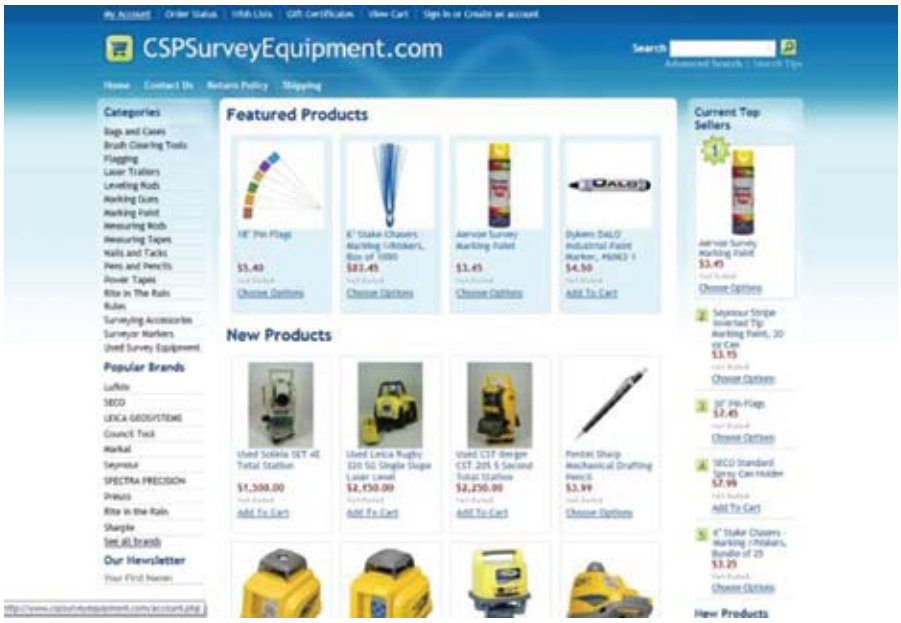
The Spectra Precision® Laser GL412 and GL422 Grade Lasers are cost-effective, automatic self-leveling lasers that do three jobs—level, grade and vertical alignment with plumb. Both lasers feature a 2-way, full-function remote control so you can make grade changes from anywhere on the jobsite for reduced setup time and faster operation.

The GL412 (single grade) and GL422 (dual grade) lasers send a continuous, self-leveled 360-degree laser reference over your entire work area, and have a wide grade range so they can be used in a variety of slope applications.

- Fast, easy horizontal level, grade and vertical plumb setup with no manual leveling
- Easy setups with the 2-way, full-function radio remote control and single and dual grade application capability offer quick payback
- Automatic temperature and grade compensation eliminates rework
- Very long operating range of 800 m (2,600 ft) for GL422 increases machine control capability and reduces setups over the jobsite.

Laser Source	GL422: <5 mW 635 nm, Class 3A/3R GL412: 3mW 650 nm, Class 2
Grade Accuracy	±1/8” at 100’
Grade Range	GL422: -10 to +15% Dual Axes GL412: -10 to +15% Single Axis
Self-Leveling Range	±5 degrees
Compensation Method	H/V Electronic Self-Leveling
Power Source	2-AA Alkaline
Battery Life	130 hours continuous
Rotation Speed	0 (GL422), 300, 600 RPM
Water Resistant	Yes, IP54 sealing
GL412 w/HL700 Receiver and Clamp	**$1775.00**
GL422 w/HL700 Receiver and Clamp	**$2075.95**

Full line of Receivers and Clamps Available.



Shop online at CSPSurveyEquipment.com for New & Refurbished Surveying Instruments as well as Supplies & Accessories.

TOTAL STATIONS

SOKKIA CX TOTAL STATION

A powerful and compact total station with rugged water/dustproof design. Includes the innovative TSshield advanced security and maintenance system, and exclusive 300m+ long range Bluetooth Class 1 communications module. For stakeout, the remote operator can view directions required to find the next stake point. The system becomes a very productive system, similar to a robotic system where the instrument man simply needs to follow, aim and focus on the remote prism.

Sokkia's advanced angle encoder technology provides "Best in class" 2 arc second angle accuracy. Technology allows the instrument will hold your angle in place.

- RED-Tech Technology, reflectorless EDM
- Advanced Angle Measurement System
- The longest battery life – 36 hours
- Waterproof, Rugged, and operator friendly

Part Number	Model	Description	Price
2140312E0	CX-101	1" Total Station, Dual Display, Laser Plummet	Call
2140322E0	CX-102	2" Total Station, Dual Display, Laser Plummet	Call
2140332E0	CX-103	3" Total Station, Dual Display, Laser Plummet	Call
2140342E0	CX-105	5" Total Station, Dual Display, Laser Plummet	Call
2140352W0	CX-107	7" Total Station, Single Display, Laser Plummet	Call
221007000	BDC70	Detachable Li-ion Battery (7.2V, 5.2Ah)	$279.95
210160092	CDC68	CDC68 Charger and Power Cable w/US Pin Plug	$239.95
221321000	DOC210	Cable for PC and CX PC connector: D-sub-9-pin female	$259.95

CST 305R TOTAL STATION

Designed with durability and proven simplicity, CST/BERGER offers professional performance at an affordable price.

Magnification	30X
Resolving Power	3.0"
Field of View	1°30'
Minimum Focus	4.92-ft (1.5m)
Distance – Single Prism	9,840 ft (3,000m)
Distance – Reflectorless	984 ft (300m)
Angular Accuracy	5 Second
Internal Memory	10,000 Points, Built-in SD Card
IP Rating	IP55
Package Contents	Battery Pack (2), Charger, Plumb Bob, Set of Tools, Software, USB and RS232 Cables, SD Card, Case
Part Number	56-CST305R
Price	Call for Price

TOTAL STATIONS

SOUTH NTS-360R SERIES REFLECTORLESS TOTAL STATIONS

SOUTH total station NTS-360R is embedded with various outstanding surveying programs, coupled with functions of data storing and parameter setting, which can be widely applied in various kinds of professional and construction survey.

- Absolute Encoding Disk
- Six-line large LCD
- Dual Axis Compensation
- SD card Function and USB interface
- Reflectorless Distance Measurement
- Various Surveying Programs

Model	NTS-362R – 2”	NTS365R – 5”
Max Range: Reflectorless	300m	
Max Range: Single Prism	5.0km	
Accuracy: Reflectorless/Fine	5+2ppm	
Accuracy: Reflectorless/Tracking	10+2ppm	
Accuracy: Reflector/Fine	2+2ppm	
Accuracy: Reflector/Tracking	5+2ppm	
Accuracy: Reflector/IR Sheet	5+2ppm	
Reading	Max: 99999999.9999 m Min:0.1mm	
Distance Units	Meter/U.S. feet/International feed/Feed-inch selectable	
Angle Measurement Accuracy	2”	5”
Telescope Magnification	30x	
Telescope Min. Focus Distance	1m	
Optical Plummet Magnification	3x	
Optical Plummet Focus Range	0.5m ~ ∞	
Battery	Rechargeable Ni-H battery, DC 6v	
Continuous Operation Time	8 hrs	
Display	LCD, 6 lines, digital	
With SD Card	Yes	
Part Number	NTS362R	NTS365R
Price	Call for price	Call for price

LEICA BUILDER R200M TOTAL STATION

- Distance measurements up to 820’ (250m) or 260’ (80m) reflectorless
- Set up anywhere (no line-of sight required)
- Easy to implement construction layout plan
- Field of view: 2.7m at 100m

762108..... Call for price

TOTAL STATIONS

SOUTH NTS-350R SERIES REFLECTORLESS TOTAL STATIONS

- High Accuracy
- Long Measuring Range: 2.6km
- Handy EDM Head
- Complete Application Programs
- Extended Internal Memory (Max. 17000 Points)
- Convenient Data Management System
- Superior Waterproof and Dustproof Capabilities
- Min Reading 0.1mm
- Cadastration Measurement

Model	NTS-352R – 2”	NTS-355R – 5”
Max Range: Reflectorless	200m	
Accuracy: Reflectorless	5+3ppm	
Accuracy: Reflector	2+2ppm	
Reading	Max: 99999999.9999 m Min:0.1mm	
Angle Measurement Accuracy	2”	5”
Telescope Magnification	30x	
Telescope Min. Focus Distance	1m	
Optical Plummet Magnification	3x	
Optical Plummet Focus Range	0.5m ~ ∞	
Battery	Ni-H Rechargeable 6V (DC)	
Continuous Operation Time	Small Battery: 3 hrs -- Large Battery: 8 hrs	
Display	LCD, 4 lines	
Part Number	NTS-352R	NTS-355R
Price	Call for price	Call for price

LEICA TCRP1205 ROBOTIC TOTAL STATION

- Angle Measurement
- Distance Measurement (IR-Mode)
- PinPoint reflectorless Distance Measurement (RL-Mode)
- Motorized
- Automatic Target Recognition
- PowerSearch
- Guide Light

Model	TCRP1205
Accuracy	5” (1.5 mgon)
Method	Absolute, Continous, Diametrical
Range: Round Prism	3000 m
Range: 360° Reflector	1500 m
Range: Mini Prism	1200 m
Range: Reflective Tape (60mm x 60mm)	250m
Range: Shortest Measureable Distance	1.5mm
Max. Speed	Rotating Speed: 45° /s
Part Number	754319
Price	Call for price

RIGHT ANGLE PRISMS & HAND LEVELS

RIGHT ANGLE PRISMS

CST/BERGER LARGE DOUBLE RIGHT ANGLE PENTA PRISM

Permits stepping off angles of 90° and 180° with a center lens which permits foresight viewing. Slot in handle accommodates plumb bob cord. Features a large field of view and larger foresight viewing glass. Complete with leather belt loop case. Measures 3-3/4" (95mm) top to bottom.

66-911 ..... **$77.95 each**

SOKKIA DOUBLE RIGHT ANGLE PRISM

Two prisms allow for sight to the right and left and clear optical glass for viewing straight ahead. Metal construction. Includes leather case.

724780 ..... **$69.95 each**

CST/BERGER HAND LEVELS

POCKET SIGHTING LEVEL

Berger Model 141. No magnification. Ideal for preliminary survey and simple distance estimation. Sturdy impact-resistant body and easy-to-read protected vial. Includes instruction manual.

17-620 ..... **$20.95 each**

LOCKE HAND LEVEL

5" long, square sighting tube with fixed eyepiece, durable black finish. No magnification. This can be used as a bench level. When supported on staff, it is sufficiently accurate for running levels in gardening and brick lines. Complete with Cordura™ belt loop case.

17-621 ..... **$28.95 each**

5X MAGNIFYING HAND LEVEL

8" long, round telescope tube extends to 9". The objective lens is mounted on a movable slide which brings distant objects into sharp focus. Eyepiece focusing slide allows regulation of crossline image. 5x magnification of objective, and 2x magnification of level bubble. Solid brass construction with durable yellow finish. Stadia lines reading 1:100. Complete with Cordura™ belt loop case.

17-630 ..... **$96.95 each**

EAGLE EYE 1X HAND LEVEL

Top-of-the-line heavy-duty hand level. Unsurpassed in quality, features and value. 1x model with stadia, this 5" level (extends to 7") is of all brass construction and features a non-glare internal finish. The internally mounted level vial assembly allows for easy replacement and maintenance. Positive 2-screw motion allows easy adjustment. Cordura™ belt loop carrying case included.

17-600EE ..... **$54.95 each**

"K & E" TYPE 2X HAND LEVEL

2-power magnification with all brass construction. 6" long with draw eyepiece extending to 7-1/2". Adjustable reflector and internally mounted bubble assembly. Complete with Cordura™ belt loop case.

17-632 ..... **$67.00 each**

2X MAGNIFYING HAND LEVEL

6" long with draw eyepiece extending to 8". Adjustable reflector and internally mounted bubble assembly. 2x magnification. Complete with Cordura™ belt loop case.

17-631 ..... **$63.00 each**

ROD LEVEL FOR WOOD RODS

Frame is made of a strong aluminum die casting, painted in bright red. The bubble is a large 7/8" diameter, 30 min. per inch of sensitivity, securely mounted into a recessed black housing. Adjustable vial, heavy duty frame.

06-750 ..... **$18.50 each**

ABNEY LEVELS

CST/berger

5-1/4" ABNEY LEVEL

This level is 5-1/4" long with radius arc graduated 0 to 90° in both directions with vernire reading to 10 minutes and percent of grade scale from 0% to 100%. Comes complete with Cordura™ belt loop case.

17-640 ..... **$68.95 each**

TOPOGRAPHIC ABNEY LEVEL

This K & E type Abney level is 6-3/8" long, extending to 7-3/8". Equipped with two interchangeable arcs with 47mm (1.85") radius. One arc is graduated in degrees, 0 to 60° in both directions. The other arc is graduated in topographic. Index has friction movement for time adjustment. Comes complete with Cordura™ belt loop case.

17-643 ..... **$124.95 each**

5X ABNEY W/ STADIA

Level features a 5-power magnification with 1:100 stadia, 7-3/4" long, with draw tube extending to 8-5/8". Has two-inch radius arch graduated to degrees, 0 to 90° in both directions; vernier reading to 10 minutes. Also has percent scale (05 to 100%) in both directions. Complete with Cordura™ belt loop case.

17-645 ..... **$157.95 each**

RANGE/PRISM POLES & ACCESSORIES

CST DURALAST RANGE POLES

Constructed of high strength aluminum core with alternating international orange and white ABS plastic tubing permanently attached to the aluminum. 5/8 -11 thread joints for quick assembly. Includes solid steel hardened point.

68-3708	**8'- 2 Section Range Pole**	**$44.95 each**
68-3712	**12'- 3 Section Range Pole**	**$58.95 each**
68-3078-1	**Case for 8' Range Pole**	**$15.95 each**

CST QUICK-LOK™ ADJUSTABLE TOP PRISM POLE

- Sturdy and dent resistant aluminum construction
- 10th and metric (every 2mm) graduations

67-4508TMA	**8' Prism Pole**	**$159.95 each**
67-4512TMA	**12' Prism Pole**	**$189.95 each**
67-4515TMA	**15' Prism Pole**	**$239.95 each**

CST QUICK-LOK™ COMPOSITE PRISM POLE

This pole is made of dent and kink resistant fiberglass composite sections and lightweight aircraft aluminum inserts.

67-4608TMA **8' Prism Pole** ..... **$159.95 each**

CST COLLET LOCK, BRASS TELESCOPING PRISM POLE

- High strength aluminum – resistant to warping and breakage.
- 5/8 -11 mounting stud, 10th /metric graduations

67-4209TMA	**8' (2.5m) 2 Section, Adj. H.I.**	**$149.95 each**
67-4212TMA	**12' (3.6m) 3 Section, Adj. H.I.**	**$179.95 each**

CST QUICK RELEASE, PRECISE PRISM POLE

- The clamping mechanism is a pistol grip, quick release.
- "Lock-Tite™" holds set screw in position but allows adjustments of clamping tension to individual preference.
- 5/8 -11 mounting stud, 10th /metric graduations.

67-4308TMA	**8' (2.5m) 2 Section, Adj. H.I.**	**$159.95 each**
67-4312TMA	**12' (3.6m) 3 Section, Adj. H.I.**	**$189.95 each**

*** Other CST Prism Poles Available**

PRISM POLE TOPO SHOE

5191 ..... **$11.95 each**

REPLACEMENT RANGE/PRISM POLE POINT

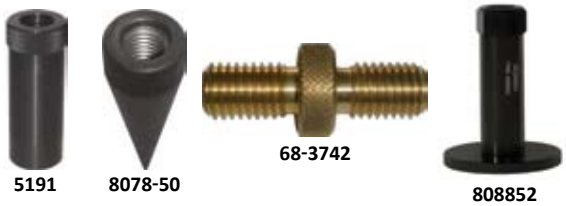
8078-50 ..... **$9.50 each**

DOUBLE-ENDED 5/8 -11 ADAPTER

68-3742 ..... **$10.95 each**

SOKKIA TOPOGRAPHIC SHOE WIDE BASE

808852 ..... **$19.50 each**



5191 **8078-50** **68-3742** **808852**

LEVELING RODS

TELESCOPING ALUMINUM RODS

CST's telescoping aluminum rods are made of a light and durable aluminum alloy. The anodized sections are imprinted with special weather resistant and corrosion resistant inks. Tight tolerances on extruded aluminum sections allow for smooth extension and prevent unnecessary clattering and sloppiness. The sectional joints are injection molded from a durable lightweight impact-resistant plastic. Rods are equipped with reliable and wear-resistant polycarbonate buttons that lock each section. Easy-to-read graduations and a special measuring scale on the backside permit users to read height at eye level.

Part Number	Length	Graduation	Sections	Price
06-804M	4-Meters	Metric "E"	4	$56.95
06-805M	5-Meters	Metric "E"	5	$63.95
06-808A	8-Feet	Ft./10ths/100ths	3	$39.95
06-808C	8-Feet	Ft./Inches/8ths	3	$42.00
06-808M	2.5-Meters	Metric "E"	3	$42.00
06-813	13-Feet	Ft./10ths/100ths	4	$56.95
06-813C	13-Feet	Ft./Inches/8ths	4	$56.95
06-816	16-Feet	Ft./10ths/100ths	5	$59.95
06-816C	16-Feet	Ft./Inches/8ths	5	$59.95
06-820	Heavy Duty Nylon Bag – One Size Fits All			$15.95

CST/berger

06-816

06-813C

06-808A

TELESCOPING RECTANGULAR FIBERGLASS RODS

The CR Series Leveling Rod Incorporates many features including a rectangular shape with rounded back corners for better gripping, a scale width graduated to fill the entire face of the rod, and measuring scale on the back side that allows for overall height readings.

These leveling rods are made with strong fiberglass, which is waterproof and corrosion resistant. The CR series is a natural for laser detector mounting with no special brackets required.

The CR series is non-conductive and features a 1/4 x 20 female adapter in the top section. A carrying case is included.

Part Number	Length	Graduation	Sections	Price
06-913	13-Feet	Ft./10ths/100ths	4	$76.95
06-913C	13-Feet	Ft./Inches/8ths	4	$76.95
06-916	16-Feet	Ft./10ths/100ths	5	$92.50
06-916C	16-Feet	Ft./Inches/8ths	5	$92.50
06-925	25-Feet	Ft./10ths/100ths	6	$159.95
06-925C	25-Feet	Ft./Inches/8ths	6	$159.95

CST/berger

SNAP-ON ROD LEVEL

- A perfect complement to CST/berger aluminum rods
- Snap on rod level fits snugly into the 06-series rods (left)
- Allows quick and convenient leveling
- Made from a durable engineered plastic, this rod level has a 30 min. vial.

06-850..... $10.95 each

SOKKIA LEVELING RODS

SOKKIA

You can count on the quality of the "original oval leveling rods." The Lietz/SKs are simply the best value available today.

- Unique patented oval shape permits equal size graduations, full-length and prevents rod from rolling
- Numerals and graduations epoxy-protected for maximum wear resistance and sized for maximum readability
- Linear accuracy exceeds 1 in 4,000
- Made from strong, corrosion-proof fiberglass that's lightweight and easy to carry; won't warp or swell
- Stainless steel base cap with sponge filter seals out dust and dirt
- 25 foot rod retracts to 5-1/2 feet for easy storage

Part Number	Length	Graduation	Sections	Price
8073-34	18-Feet	Ft./Inches/8ths	5	$124.95
8073-44	18-Feet	Ft./10ths/100ths	5	$124.95
8073-38	25-Feet	Ft./Inches/8ths	7	$163.95
8073-48	25-Feet	Ft./10ths/100ths	7	$163.95
8073-68	7-Meters	Metric	7	$163.95
68-3742	Double-Ended 5/8 x 11 Adapter			$9.95

**** Replacement Sections Available***

***** Other SK Rods Available***

LEVELING RODS

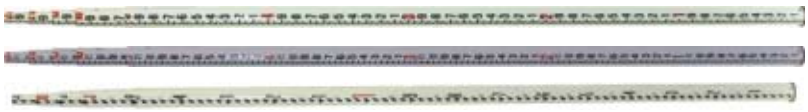
CRAIN TELESCOPING FIBERGLASS LEVELING RODS

STANDARD & PROFESSIONAL SERIES

Crain Leveling Rods have the most highly engineered locking system available – with molded plastic locks, buttons and base caps. They are the sturdiest rods available – designed for rugged use. Faces are silkscreened for durability and coated with polyurethane.

LR-STD STANDARD SERIES LEVELING RODS

The LR-Standard Series Leveling Rod is the original leveling rod, for many years, the industry standard. The LR series are round and have a smaller diameter making it easier to handle. The LR-STD is available in 25 ft. length in two graduations and one metric scale.



90004
90009
90014

Part Number	Length	Graduation	Price
90004	25-Feet	Ft./10ths/100ths	$259.95
90009	25-Feet	Ft./Inches/8ths	$259.95
90014	7.5-Meters	Metric	$259.95
91402	Nylon Carrying Case		$18.95

LR-PRO PROFESSIONAL SERIES LEVELING RODS

The LR-PRO Series Leveling Rod is also an original rod. The LR-PRO is larger in diameter so that it is sturdier and easier to read at high heights. The LR-PRO is the only rod available in 35 ft. and 45 ft. lengths in feet/10ths/100ths only. Includes carrying case.

90022
90024

Part Number	Length	Graduation	Price
90022	25-Feet	Ft./10ths/100ths	$309.95
90024	35-Feet	Ft./10ths/100ths	$454.95
91402	Nylon Carrying Case		$18.95

CRAIN SURVEYOR'S SERIES LEVELING RODS (SVR)

The Crain SVR Leveling Rod with a new sleeker design features a new shorter collapsed length (58.5 inches on 25-foot versions) and a lighter weight.

It is constructed of strong, rigid fiberglass with reinforcing ribs and added stability. It's waterproof and non-conductive. The rectangular-oval shape allows for wide, glare resistant scales that are wear-resistant.

A tight locking mechanism features round buttons that resist jamming from sand and dirt. Top section includes 1/4 x 20 female adapter.

Part Number	Length	Graduation	Price
98020	17-Feet	10ths	$162.95
98025	17-Feet	Inches/10ths	$162.95
98010	25-Feet	10ths	$187.95
98016	25-Feet	10ths/Philly Metric (Dual)	$187.95

MEASURING RODS

HASTINGS NON-CONDUCTIVE TELESCOPING MEASURING STICKS

Makes one-man measurements horizontally or vertically quick and easy. These sticks are constructed of fiberglass and are non-conductive (voltage rating of 100,000 V per foot per 5 minutes). Use these sticks for measuring powerlines, ceilings and heights of trees.

English Sticks: graduated in ft., inches and half inches. Storage height 5 ft.

EI-140 25ft. extended ..... $288.95 each
EI-130 30 ft. extended ..... $378.85 each
EI-135 35 ft. extended ..... $434.95 each
EI-140 40 ft. extended ..... $572.95 each
EI-150 50 ft. extended ..... $644.95 each

Metric Sticks: graduated in meters, decimeters and centimeters

2121 7.5m extended ..... $299.95 each
2126A 10.5m extended ..... $459.00 each
2141 12m extended ..... $603.95 each
2144 15m extended ..... $652.95 each

SOKKIA SK DIGITAL MEASURING POLES

- Enables one person to make measurements in those difficult spots that always used to require a second person, a ladder or a hook at the end of a pole
- Exact measurements of up to 26 ft. or 8m are conveniently read on the enclosed, sealed digital readout
- Rugged fiberglass construction with excellent tensile strength
- Easily withstands severe temperature and humidity variations
- Compact (only 4'8" closed) and lightweight (less than 5 lbs.) for easy carrying
- Smooth telescoping movement with friction clamps for no-slip extension
- Top section is foam-filled to prevent moisture from entering
- Increased spring tension gives rapid, no stick measuring tape rewinding action
- Dielectric strength of 100kV per foot per 5 minutes
- Complete with shoulder strap and carrying case

8073-76 Sokkia/SK Digital Measuring Pole in ft/in/8ths ..... $299.95 each
8073-86 Sokkia/SK Digital Measuring Pole in ft/10ths/100ths ..... $299.95 each

CRAIN FIBERGLASS TELESCOPING MEASURING RODS

Non-conductive fiberglass pole with both English and Metric scales. Telescoping sections nest inside each other for ease of storage and transportation. Direct reading at eye level and a four foot rule in the base section. Measurements may be read from any direction. Locking buttons and a 1/4 x 20 threaded tip for use with accessories. Includes caliper tip and a nylon carrying case. Graduated: English in inches at 1/4" increments and Metric in 1/2 cm increments. Three lengths available

90180 25 ft/7.62m Extended/51.5" Retracted ..... $319.95 each
90181 36 ft/11m Extended/58.5" Retracted ..... $529.95 each
90182 50 ft/15.24m Extended/66.9" Retracted ..... $734.95 each

DIRECT ELEVATION RODS

SECO DIRECT ELEVATION RODS

7501-21

7601-21

Aluminum

7501-21 Bold Face, Ft./10ths/100ths, (Import) ..... $149.95 each
7601-21 Cut & Fill, Ft./10ths/100ths, (Import) ..... $149.95 each

ASH DIRECT ELEVATION LASER RODS

- The rods extend to 10 ft. and retract to 5.4 ft.
- The front features a graduated, endless 10-foot stainless steel band which runs over Delrin® end-rollers
- The latch in the back locks the band in any position
- These come with a side rail for connecting an optional bracket
- Weighs 7 lbs.

7602-21

7502-21

7502-21 Bold Face, Ft./10ths/100ths ..... $249.95 each
7602-21 Cut & Fill, Ft./10ths/100ths ..... $244.95 each

ASH DIRECT ELEVATION RODS (Non-Laser)

These rods have the same high-quality features as their above counterparts but without the rail for the detector bracket.

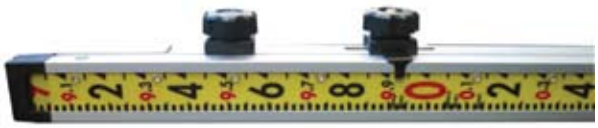
7502-20

7602-20

7502-20 Bold Face, Ft./10ths/100ths ..... $234.95 each
7602-20 Cut & Fill, Ft./10ths/100ths ..... $214.95 each

SOKKIA DIRECT ELEVATION RODS

Lightweight aluminum design.



807650 10-Feet, Ft./10ths/100ths ..... $159.95 each

SOKKIA BUILDERS' MINI RODS

Unfolds to 6-1/2 or 9 ft. leveling rod – 15/16" wide. Printed graduations on both sides are embedded below surface and sealed with reflective yellow finish. Lightweight and economical. Graduated in Ft./10ths/100ths.

8075-48 6-1/2 ft. Mini Rod ..... $78.95 each
8075-51 9 ft. Mini Rod ..... $90.95 each

***Also Available in Ft./Inches/8ths Gr**

Shop our Survey Supplies online @ www.cspsurveyequipment.com

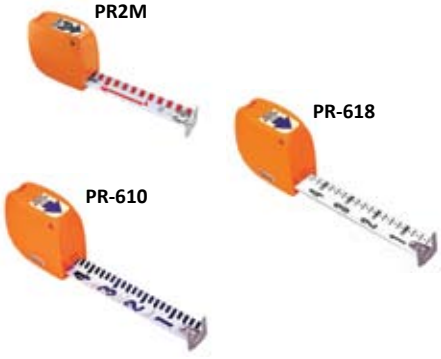
Construction Safety Products, Inc.

KESON POCKET ROD™ COMBINATION BUILDERS ROD & SURVEYORS POLE

KESON MAKE YOUR MARK

The Pocket Rod™ is ideal for foundation work, grading, swimming pools and construction photo records. Simply remove the coated steel blade from the case and you get a convenient 6-1/2 ft. leveling rod. When you're finished, insert back in case. Tecron-Tuff Coat™ protects graduations from wear. Blade is not affected by moisture. Pocket Rod™ is graduated on two sides with sharp easy to read numerals. Other features include a built in target and heavy duty end hook.

Part Number	Graduations	Price 1-9	Price 10+
PR-610	Ft./10ths/100ths	$15.95	$14.75
PR-618	Ft./Inches/8ths	$15.95	$14.75
PR2M	Metric	$15.95	$14.75



SURVEYING ACCESSORIES

PLUMB BOBS

- Precision machined from solid brass with hardened steel points
- Each one contains a storage area for a spare point

11-499 10 oz ..... $15.95 each
11-550 12 oz ..... $16.95 each
11-551 14 oz ..... $16.50 each
11-552 16 oz ..... $16.50 each
11-553 18 oz ..... $20.95 each
11-554 24 oz ..... $25.95 each
11-554A 32 oz ..... $34.95 each

REPLACEMENT POINTS & CAPS

11-555B Plumb Bob Point .....$1.35 each
11-555A Plumb Bob Cap.....$1.75 each

LEATHER SHEATH

- Made of top grain leather with a belt loop

11-556 for 8-12 oz Plumb Bobs ..... $6.75 each
11-557 for 14-18 oz Plumb Bobs ..... $6.75 each
11-558 for 24-32 oz Plumb Bobs ..... $7.95 each

PLUMB BOB CORD

- 50 yard reel, bright red.

8124-37 .....$11.95 each

PLUMB BOB TARGET

- Fluorescent, Plastic, 2" x 4"

11-431.....$1.50 each

SURVEY MARKERS

- Solid brass with curved heads.
- Ribbed shank prevents turning or loosening.

DOMED

- Shank Area: 0.4 sq. in.; shank length: 2 in.

8134-13 2" Top Diameter .....$6.95 each
8134-16 2-1/2" Top Diameter.....$7.95 each

FLAT

- Non-glare finish, 1/8" thick top
- Shank area 0.4 sq. in., length: 2 in. Units – Each

8134-06 2-1/2" Top Diameter.....$7.95 each

MAG NAILS

Rock hard MAG NAIL has become the chosen nail among surveyors worldwide. The MAG NAIL has also been coated with an environmentally friendly zinc and clear chromate to resist corrosion. Box of 100 nails.

- Find it farther
- Larger center point
- More durable than other nails
- Zinc Plated- ROHS European Compliant

Part Number	Size	1-9 Boxes	10+ Boxes
MAG-1	5/32" x 1"	$7.50	$7.00
MAG-2	3/16" x 1-1/4"	$10.85	$9.75
MAG-3	1/4" x 1-1/2"	$14.75	$13.50
MAG-4	1/4" x 2"	$17.25	$15.95
MAG-5	1/4" x 2 ½"	$21.25	$19.25

STAKE TACKS

- Heavy galvanized tacks with indented head

20-750 1 lb box.....$9.95 each

TACK BALL

- Handy rubber ball, used as a "pin cushion" for holding stake tacks
- Attached belt loop

39196.....$7.95 each

CHAINING PINS

Also known as Surveyor's Arrows, these chaining pins are made of 3/16" hardened steel and are 14" in length. Set of 11 painted alternatively with red and white enamel for easy visibility.

04-501 Set of 11 ..... $23.95 each
04-511 Carrying Ring ..... $12.95 each
04-506 Leather Quiver..... $19.50 each

SHINERS

- Used for indicating semi-permanent points with spikes or nails
- Made of tin.

8134-31 1-5/16", 1 lb Box..... $22.95 each
2181 2-1/4", Box of 250 ..... $32.95 each

SPINDLE

- Also known as a Cotton Gin Spike, this spindle is made of hardened steel and drives into many hard surfaces
- 1/2" diameter at top and ¼" at bottom.
- 4-3/4" Long

SPINDLE.....$.75 each

60D NAILS

6920 50 lb Box..... $75.00 each

GAMMON REELS

- Handy, retracting plumb bob cord reel that automatically rewinds
- Fluorescent Red Cord

8124-49 12' Cord ..... $16.50 each
8124-50 6 1/2' Cord ..... $12.95 each

SURVEYING ACCESSORIES

SOKKIA SCRIBERS

- Marks on hard steel, glass, plastic, etc.
- Replaceable tungsten carbide tip.
- Pocket Clip.
- 6" Length

8130-50	Scriber	$6.95 each
8130-51	Replacement Point	$2.95 each
8130-53	Premium Scriber	$6.75 each
8130-55	Replacement Point for Premium Scriber	$3.75 each

ENGINEER'S HAMMER

16" Hickory Handle

PR30	3 lb	$12.50 each
PR40	4 lb	$14.95 each

ESTWING DRILLING HAMMER

Used for driving hardened nails and cold chisels. Forged, one-piece solid steel construction, painted finish with nylon-vinyl grip, baked and bonded to handle.

B3-4LBL	4# Long Handle	$35.95 each
B3-4LB	4#	$34.95 each
B3-3LB	3#	$30.50 each
B3-2LB	2#	$30.50 each

SHARPIE MEAN STREAK® PERMANENT MARKING STICK

- Permanent marking stick marks on wet and oily surfaces
- Extra bold tip marks on dark surfaces with an opaque line
- Waterproof formula resists fading and adheres to virtually any surface
- Perfect for industrial use
- 2 bold colors

85018	White	$4.50 each
85005	Yellow	$4.50 each
	12+	$4.25 each

SHARPIE KING SIZE™ PERMANENT MARKER

- Industrial Strength for the toughest marking jobs
- Durable aluminum barrel and felt tip stand up to heavy use
- Excellent for marking corrugate, wood, metal, foil, stone, plastic, leather and more
- Marks on wet and oily surfaces
- Water resistant and dries quickly

15001-SH	Black	$1.50 each
15002	Red	$1.50 each
	12+	$1.25 each

MARKAL QUIK STIK® MARKER

Marks on virtually any surface, metal, glass, plastic, wood, cardboard, paper, etc.

- Smooth-marking, fast-drying paint marks dry in 5-7 minutes.
- Bright, bold, fade resistant colors.
- More marks for the money, 20% longer than other brands.
- Plastic holder with self-storing cap prevents breakage, keeps hands and clothing clean.
- Stick advances by turning twist-up knob.
- Marking range: 0°F - 140°F (-18°C to 60°C).

61050	Black	$4.50 each
61049	Red	$4.50 each
61051	White	$4.50 each
61053	Yellow	$4.50 each
	12+	$4.25 each
	* Other colors available	

MARKAL BALL PAINT MARKER

- Fine line marks with real paint that dries in minutes
- Ball size 1/8"
- Lead free
- Marks are weather and water resistant
- Packed in unbreakable plastic bottle with durable metal ball tip
- Marks on almost any surface
- Typical uses: metal pipe, I-beams, sheet metal, lumber, PVC pipe
- Marking range: -50 F to 150 F

84620	White	$3.95 each
84621	Yellow	$3.95 each
84622	Red	$3.95 each
84623	Black	$3.95 each
84624	Orange	$3.95 each
84625	Blue	$3.95 each
84626	Green	$3.95 each

DIAGRAPH GP-X CLASSIC PAINT MARKERS W/XYLENE

The industry's favorite marker. Weather-and fade-resistant colors. Makes permanent marks on: porous and non-porous surfaces, metal, wood, corrugated, rubber, plastic, and glass.

0958-500	Yellow
0968-500	White
0968-520	Red
0968-521	Blue
0968-522	Green
0968-523	Orange

1-11	$2.95 each
12+	$2.50 each

PENCILS & MARKERS

THE ORIGINAL TICONDEROGA PENCIL

The Ticonderoga is the world's best selling pencil. Satin smooth finish enhances writing comfort; exclusive graphite core formula give you extra smooth performance crafted from reforested California cedar. Top quality eraser provides easy, clean corrections. PMA certified non-toxic. Packated 12 per box.

13881	No. 1 Extra Soft	$2.95 each
13882	No. 2 Soft	$2.95 each
13883	No. 3 Hard	$2.95 each
13884	No. 4 Extra Hard	$2.95 each
13885	No. 2-1/2 Medium	$2.95 each

PENTEL DRAFTING MECHANICAL PENCILS

The industry standard in automatic drafting pencils 0.4mm fixed sleeves, ideal for template work. Adjustable metal clips, and erasers, auto lead advance.

P205	Pencil	$5.25 each
C505-B	Tube of 3 Replacement Leads	$3.50 each
Z2-1BP3	Pack of 9 Replacement Erasers	$4.95 each

DIXON CARPENTER PENCILS

The world's best known carpenter pencil. Dixon's "Red & Black" carpenter pencil lays down a traditional rich black mark. Easy to see, easy to sharpen, smooth marking and long lasting. Flat hex shape fits in the pocket and keeps it from rolling. Packaged 12 per box.

19971	Soft	$.50 each
19972	Medium	$.50 each
19973	Hard	$.50 each

DIXON REDISHARP PLUS PERMANENT MARKERS

RediSharp Plus permanent marks stay where you put it. Specially formulated waterbased ink is smooth flowing and permanent on most surfaces. Ideal for writing or drawing. Won't bleed through paper. No strong smell normally associated with permanent markers. Vented safety cap. AP certified non-toxic. Fine point. Packaged 12 per box.

98201	Red	$10.95 each
98204	Green	$10.95 each
98206	Purple	$10.95 each
98207	Black	$10.95 each
98208	Blue	$10.95 each

DIXON REDIMARK METAL BODY FELT TIP MARKERS

Leak-proof, seamless metal body, heavy-duty felt tip, anchored nib construction. Permanent, instant drying marks with excellent durability and fade resistance. For permanent marking of glass, plastic, metals, cellophane, paper, etc. Chisel Point – 6" Barrel.

87110	Red	$1.50 each
87170	Black	$1.50 each
87180	Blue	$1.50 each
	12+	$1.25 each

ARROMARKER™ VALVE ACTION FIBER-TIP PERMANENT MARKER

- Permanent
- Valve Action
- Xylene Free
- Quick Dry
- Dye Type Ink
- Water Proof
- Highly Visible
- Resists Abrasions
- Works On Most Surfaces
- Conforms to ASTM 4236
- Alcohol Based (contains no aromatic solvents)
- Temperature Range of -5° - 125° F (-20° to 49° C)

00127	1-12	$2.25 each
	12-71	$1.95 each
	72+	$1.75 each

MARKAL VALVE ACTION PAINT MARKERS

Excellent all-surface marking with durable, fade resistant, high visibility marks.

- Xylene-free paint formula
- Faster drying paint reduces smears while allowing almost immediate handling of marked items
- Low chlorides/low halogens paint formula
- ClipGrip Cap for convenient pocket storage and easy removal
- Dura-Nib medium bullet tip allows writing on rougher surfaces and holds up better in tough applications
- Temperature range: -50°F to 150°F (-46°C to 66°C).
- Made in the U.S.A.

96809	Brown	96824	Orange	96817	Purple
96825	Blue	96820	White	96826	Green
96821	Yellow	96828	Light Green	96835	Light Blue
96830	Pink	96823	Black	96827	Gold
				96832	Aluminum

1-11 ..... $2.95 each
12+ ..... $2.75 each

ASSORTED BOX OF MARKAL VALVE ACTION PAINT MARKERS:
- **Includes 8 white, 8 yellow, 4 red and 4 black Markers**

96819 ..... $79.95 each

REPLACEMENT TIPS FOR VALVE ACTION PAINT MARKERS

19971	Soft	$.50 each
19972	Medium	$.50 each
19973	Hard	$.50 each

STAKES & ACCESSORIES/FLAGGING

WOODEN STAKES, HUBS AND LATHES

Stakes – Bundle of 50	Part Number	Price
3/4" x 3/4" x 36"	3620	$14.10
3/4" x 3/4" x 48"	4820	$18.95
1" x 1-1/2" x 8"	0830	$6.75
1" x 1-1/2" x 12"	1230	$7.95
1" x 1-1/2" x 18"	1830	$10.25
1" x 1-1/2" x 24"	2430A	$13.60
1" x 1-1/2" x 36"	3630	$22.50
1" x 1-1/2" x 48"	4830	$29.95

Laths – Bundle of 50	Part Number	Price
1" x 1-1/2" x 18"	1810	$9.75
1" x 1-1/2" x 36"	3610	$18.50
1" x 1-1/2" x 48"	4810	$21.50

Hubs – Bundle of 25	Part Number	Price
1-1/2" x 1-1/2" x 6"	0650A	$4.95
1-1/2" x 1-1/2" x 8"	0850	$6.00
1-1/2" x 1-1/2" x 12"	1250	$8.50
1-1/2" x 1-1/2" x 18"	1850	$10.50
1-1/2" x 1-1/2" x 24"	2450	$13.60

Foundation Stakes – Bundle of 20	Part Number	Price
2" x 4" x 24"	2X4X24	$12.95
2" x 4" x 36"	2X4X36	$22.40

STAKE CHASERS/WHISKERS

- Used for marking foundations
- 6" flexible, colored bristles
- Pound into stake with a 60 penny nail.

0100	Orange
0200	Blue
0300	Pink
0400-Y	Yellow
0500-R	Red

Bundles of 25 ..... $3.75 each
Box of 1000 ..... $116.95 each

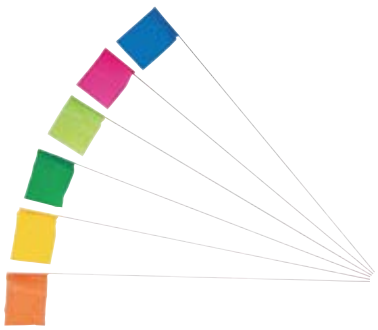
SECO STAKE BAGS

- Heavy duty Cordura®
- Comes with shoulder straps and outside pockets

8090	16" Hub Bag	$39.95 each
8100-20-ORG	36" Lath Bag	$38.95 each
8101-20-ORG	48" Lath Bag	$45.50 each

PIN FLAGS

Plain Color Flags							Volume Pricing		
Flag Size	Wire Length	Red	Orange	Yellow	Blue	White	1-9	10+	50+
2 ½" x 3 ½"	15"	2315-R	2315-O	2315-Y	2315-B	2315-Y	$5.55	$4.85	$4.45
	18"	2318-R	2318-O	2318-Y	2318-B	2318-W	$6.00	$5.30	$4.85
	21"	2321-R	2321-O	2321Y	2321-B	2321W	$6.30	$5.55	$5.05
4" x 5"	24""	4524-R	4524-O	4524-Y	4524-B	4524-W	$7.50	$6.75	$6.05
	30""	4530-R	4530-O	4530-Y	4530-B	4530-W	$8.20	$7.35	$6.65
	36"	4536-R	4536-O	4536-Y	4536-B	4536-W	$9.10	$8.25	$7.35
Fluorescent Color Flags							Volume Pricing		
Flag Size	Wire Length	Pink Glo	Orange Glo	Red Glo	Blue Glo	Lime Glo	1-9	10+	50+
2 ½" x 3 ½"	15"	2315-PG	2315OG	2315-RG	2315-BG	2315-LG	$5.55	$4.85	$4.45
	18"	2318-PG	2318-OG	2318-RG	2318-BG	2318-LG	$6.00	$5.30	$4.85
	21"	2321-BG	2321-OG	2321-RG	2321-BG	2321-LG	$6.30	$5.55	$5.05
4" x 5"	24"	4524-PG	4524-OG	4524-RG	4524-BG	4524-LG	$7.50	$6.75	$6.05
	30"	4530-PG	4530-OG	4530-RG	4530-BG	4530-LG	$8.20	$7.35	$6.65
	36"	4536-PG	4536-OG	4536-RG	4536-BG	4536-LG	$9.10	$8.25	$7.35



See Forestry pages 3-4 for more flagging products.

MARKING PAINT

SEYMOUR-INVERTED TIP MARKING PAINT

Stripe Inverted Tip Marker (upside-down marker) is a heavy-duty, industrial paint with a water base formula that is fast drying, durable and non-clogging. The paint is not soluble in water and will not wash away. Available in the full range OSHA and American Public Works Association approved colors, the Inverted Tip Marker is excellent for use in marking construction and excavation sites, underground utility lines and traffic safety. Because of its water based formula, it can be used on lawns without damaging grass. Lead –free.

20-631	**Clear Lacquer**
20-652	**White**
20-653	**Blue**
20-676	**Yellow Flo**
20-663	**Black**
20-657	**Orange Flo**
20-678	**Yellow**
20-658	**Red/Orange Flo**
20-671	**Red**
20-679	**Pink Flo**
20-668	**Green Flo**

1-11 Cans.....$4.50 each
12+ Cans.....$3.75 each

Seymour Inverted Tip Marking Paint can be used with the following Marking Equipment:

Z-605	**Marking Gun (hand held)**	**$32.95 each**
Z-606	**Marking Wand (1 wheel)**	**$39.95 each**
Z-13	**Aerosol Can Trigger**	**$3.75 each**

Z-13

Z-606

Z-605

SEYMOUR

AERVOE SURVEY MARKING PAINT

Superior upside down marking paints that are designed to clearly and effectively mark the location of underground utilities. These solvent-base paints will mark almost any surface, including wood, concrete, asphalt, brick and gravel.

201	**Red**	**202**	**Yellow**
203P	**Blue**	**207**	**White**
210-CN	**Silver**	**222**	**Orange Flo**
224	**Green Flo**	**227**	**Blue Flo**
229	**Pink Flo**		

1-11 Cans.....$4.25 each
12-47.....$3.75 each
48+.....$3.50 each

RUSTOLEUM INVERTED TIP

Solvent-based marking paints that feature a precision-line spray tip for easy to read bright, vivid markings for utility, construction, excavation, surveying, landscape, and golf course markings.

- Best resistance against premature fading
- Marks more linear feet per can than other brands
- No mess spray tip keeps paint off fingers
- Locking tip does not pop off
- Virtually no overspray
- Dries fast – less than 5 minutes
- Convenient spray-through cap
- Guaranteed not to clog

203036	**Orange Flo**
1861838	**Pink Flo**

1-11 Cans.....$3.95 each
12+.....$3.50 each

CSP WISH LIST

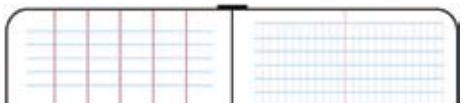
ENGINEER'S FIELD BOOKS

- 80 Pages – 50% cotton rag content
- Left and right pages register
- Weatherproof, durable
- Formula for solving right angles, curves
- Tables for minutes in decimals of a degree; paper inches in decimals of a foot

SOKKIA

ELAN

TRANSIT & ECONOMY FIELD BOOKS



- Left Page: blue horizontal lines, red vertical lines
- Right Page: 8 vertical & 4 horizontal blue lines, red vertical center line
- Size: 4-1/2" x 7-1/4"

8152-00 Transit Field Book - Sokkia
1-5 ..... $7.75 each
6+ ..... $7.25 each

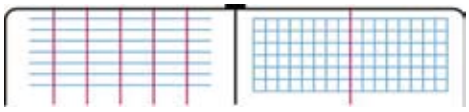
8152-05 Economy Field Book; heavy paper cover, spiral bound, 36 pages - Sokkia ..... $3.95 each

E64-8X4 Transit Field Book - Elan
1-5 ..... $7.95 each
6+ ..... $6.95 each

E64-8X4W Economy Field Book - Elan ..... $3.95 each

MINING TRANSIT BOOK

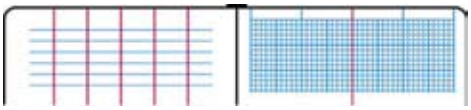
- Left Page: blue horizontal lines, red vertical lines
- Right Page: 8 x8 blue lines, red vertical center line
- Size: 4-1/2" x 7-1/4"



8152-20 Sokkia
1-5 ..... $9.50 each
6+ ..... $8.50 each

E64-8X8 Elan
1-5 ..... $7.95 each
6+ ..... $6.95 each

ENGINEERS FIELD BOOK

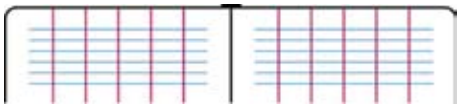


- Left Page: blue horizontal lines, red vertical lines
- Right Page: 10 x 10 blue lines, red vertical center line; inch lines heavy
- Size: 4-1/2" x 7-1/4"

8152-30 Sokkia
1-5 ..... $7.95 each
6+ ..... $6.95 each

E64-10X10 Elan
1-5 ..... $7.95 each
6+ ..... $6.95 each

LEVEL BOOK



- Both pages: blue horizontal lines, red vertical lines
- 6 vertical columns.

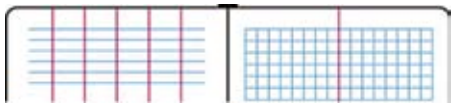
8152-50 Sokkia Level Book: 4 x 6-1/2"
1-5 ..... $8.50 each
6+ ..... $7.50 each

8152-55 Sokkia Level Book: 4-1/2" x 7-1/4"
1-5 ..... $8.50 each
6+ ..... $7.50 each

E64-64M Elan Level Book: 4 x 6-1/2"
1-5 ..... $7.95 each
6+ ..... $6.95 each

E64-64 Elan Level Book: 4-1/2" x 7-1/4"
1-5 ..... $7.95 each
6+ ..... $6.95 each

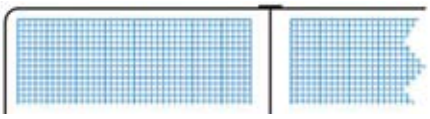
FIELD BOOK



- Left Page: blue horizontal lines, red vertical lines
- Right Page: 4 x 4 blue lines, red vertical center line
- Size: 4-1/2" x 7-1/4"

8152-60 Sokkia
1-5 ..... $7.95 each
6+ ..... $6.95 each

CROSS-SECTION



- Both pages: 10 x 10 blue lines with inch lines slightly heavier
- Size: 6-1/2" x 8-1/2"

8152-75 Sokkia
1-5 ..... $11.95 each
6+ ..... $10.95 each

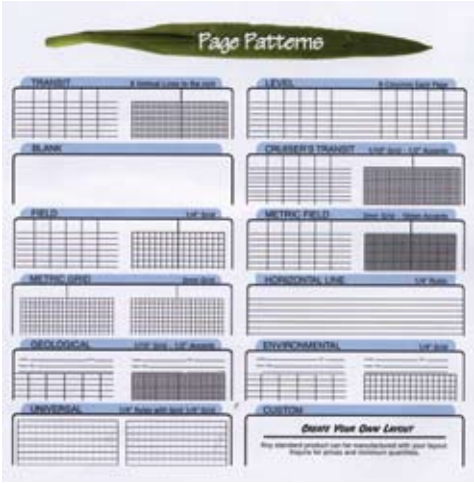
E64-4X4 Elan
1-5 ..... $10.95 each
6+ ..... $9.95 each

E10SX10K Elan 6 ½" x 8 ½"
1-5 ..... $10.95 each
6+ ..... $9.95 each

ALL-WEATHER WRITING MATERIALS

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

What is Rite in the Rain? Rite in the Rain is an environmentally responsible, all-weather writing paper that sheds water and enables you to write anywhere, in any weather. Using a pencil or an all weather pen, Rite in the Rain ensures that your notes survive the rigors of the field, regardless of the conditions.



FIELD BOOKS

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

STANDARD BOUND BOOKS

The "professional's" Bound Book – the only books manufactured with true outdoor durable components. The cover, the paper, the sewn-in pages, even the glue is designed to survive the elements.
• 4.75" x 7.5" - 160 pages - 80 sheets

Available in two cover types:
• Fabrikoid Cover (hardbound)
• Heavy Polydura Cover (smooth plastic material made with post-consumer waste)

1-11.....$17.50 each
12+.....$16.95 each

POLYETHYLENE COVER

300F	**Transit Pattern**
310F	**Level Pattern**
330F	**Blank Pattern**
350F	**Field Pattern**
360F	**Metric Field Pattern**
380F	**Metric Grid Pattern**
390F	**Journal Pattern**

FABRIKOID COVER

300A	**Transit Pattern**
310	**Level Pattern**
N/A	**Blank Pattern**
350	**Field Pattern**
360	**Metric Field Pattern**
N/A	**Metric Grid Pattern**
390	**Journal Pattern**

LARGE CROSS SECTION BOUND BOOK

• Fabrikoid Cover (hardbound)
• 6.75" x 8.75"
• Page pattern has a 10 x 10 inch grid with 1" accents

370-6F.....$22.50 each

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

NUMBERED PAGE BOUND BOOKS

Referencing data in your bound book is easier with these numbered page books. These books meet E.P.A. requirements for legal defensibility.

Available in two cover types:
• Fabrikoid Cover (hardbound)
• Heavy Polydura Cover (smooth plastic material made with post-consumer waste)

1-11.....$19.50 each
12+.....$18.75 each

POLYETHYLENE COVER

350N	**Field Pattern**
390N	**Journal Pattern**

FABRIKOID COVER

350NF	**Field Pattern**
390NF	**Journal Pattern**

POCKET-SIZED BOUND FIELD BOOKS

• Same features as above in a smaller size
• 4.25" x 6.75"
• Perfect for single jobs
• Fabrikoid covers only
• Journal Page Pattern– 160 pages/80 sheets
• Environmental Page Pattern– 76 pages/38 sheets

390-4F Journal.....$16.50 each
12+.....$15.75 each
550-4F Environmental.....$14.50 each
12+.....$13.75 each

ALL-WEATHER WRITING MATERIALS

"Rite in the Rain®" ALL-WEATHER WRITING PAPER

ENVIRONMENTAL & GEOLOGICAL BOUND BOOKS

Environmental Bound Books - Same features as standard bound books with numbered pages - 4.75" x 7.50"

- Meet U.S. E.P.A. Guidelines & are legally defensible in case of litigation
- Contain 10 helpful environmental reference pages

550A	Polydura	$19.50 each
	12+	$18.75 each
550F	Fabrikoid	$19.50 each
	12+	$18.75 each

GEOLOGICAL BOUND BOOK & KIT

The book includes 20 helpful reference pages, standard and metric rulers, and numbered pages. It has a Fabrikoid cover and 160 pages (80 sheets). Also includes a photo scale and a ruler.

The no. 540F-KIT includes: No. 97 Pen, the C540 Cordura Pouch, and the 540F Geological Bound Field Book

540F	Book Only 1-11	$21.95 each
	Book Only 12+	$18.75 each
C540F	Cordura Pouch	$23.75 each
540F-KIT	Geological Kit	$52.95 each

POCKET-SIZED ENVIRONMENTAL & GEOLOGICAL BOUND BOOKS

Same features as above in a smaller size

- 4.25" x 6.75"
- Perfect for single jobs
- Fabrikoid covers only
- Environmental Page Pattern
- 76 pages/38 sheets

550-4F	Environmental	$15.95 each
	12+	$14.50 each

C540F - Cordura pouch - $23.75

CORDURA® fabric pouch, fits book, pens, & acid bottle. Improved design has an easy open clasp and two waist clips on the back - No belt needed!. Fits all 4-3/4 in x 7-1/2 in bound books, also fits any standard sized notebook. This case can be used with any standard Rite in the Rain Field Book.

STAPLED NOTEBOOKS

- A favorite among students and professionals
- Tagboard cover with secure stitching
- 4-5/8" x 7" with 48 numbered pages/24 sheets

301-EA	Transit Pattern
311-EA	Level Pattern
341-EA	Cruisers Transit
351-EA	Field Pattern
371-EA	Universal
361-EA	Metric Field Pattern
381-EA	Metric Grid Pattern
391-EA	Journal Pattern

1-11	$3.85 each
12+	$3.50 each

MINI-STAPLED MEMO NOTEBOOKS

- Perfect for small jobs
- Tagboard cover with secure stitching
- 3-1/4" x 4-5/8"
- 24 numbered pages/12 sheets

311-M	Level Pattern
371-M	Universal
391-M	Journal Pattern

1-11	$?? each
12+	$?? each

TOP-BOUND MEMO NOTEBOOK

- Journal pattern (horizontally lined)
- Bound construction with tagboard cover and perforated pages
- 3-1/4" x 5-1/4" with 25 sheets

100C	1-11	$4.25 each
	12+	$3.95 each

Amazing! Look at the difference between Rite in the Rain® and regular notebook paper in wet conditions!

ALL-WEATHER WRITING MATERIALS

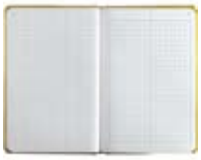
"Rite in the Rain®"
ALL-WEATHER WRITING PAPER

SPIRAL NOTEBOOKS

- Polydura cover and wire-o binding
- 4-5/8" x 7" with 64 page/32 sheets.

353	Field Pattern
393	Journal Pattern
303	Transit Pattern
313	Level Pattern
363	Metric Field Pattern
373	Universal Pattern
383	Metric Grid Pattern

1-11 ..... $7.30 each
12+ ..... $6.75 each



353N Field Pattern w/ numbered pages
393N Journal Pattern w/ numbered pages

1-11 ..... $8.25 each
12+ ..... $7.50 each

MAXI-SPIRAL NOTEBOOK

- Large format notebook with Polydura cover and wire-o binding
- 8-1/2" x 11" with 84 pages/42 sheets

313-MX	Level Pattern, Side Spiral
333-MX	Bank Pattern, Side Spiral
353-MX	Field Pattern, Side Spiral
363-MX	Metric Field Pattern
373-MX	Universal Pattern, Side Spiral
393-MX	Journal Pattern, Side Spiral
185	Field Pattern, Top Spiral

1-11 ..... $15.50 each
12+ ..... $14.95 each

POCKET NOTEBOOKS

Sized to take with you on outings

- Polydura cover with wire-o binding
- Universal page pattern
- 100 pages/50 sheets
- Kits include Book, Pen and Cordura Cover with zipper and room for up to 4 writing utensils.

135	Shirt Pocket (3" x 5")	$4.25 each
	12+	$3.75 each
135-KIT	Kit with 135 book	$25.95 each
C935	Cover only for 135 book	$12.50 each
146	Hip Pocket (4" x 6")	$4.50 each
	12+	$4.15 each
146-KIT	Kit with 146 book	$27.95 each
C1700	Belt pouch only for 146	$16.50 each

TACTICAL POCKET NOTEBOOK

- Same features as other pocket notebooks
- Olive Drab cover with green tinted paper for camouflage and glare reduction

935	Shirt Pocket 3" x 5"	$4.25 each
	12+	$3.75 each
946	Hip Pocket 4" x 6"	$4.50 each
	12+	$4.15 each

REPORTER'S NOTEBOOK

- Journal pattern
- 4" x 8"
- 100 pages/50 sheets
- Polydura cover with wire-o binding
- Ruled edges on back cover – in inches and centimeters.

148 ..... $5.00 each
12+ ..... $4.50 each

MINI-SPIRAL MEMO NOTEBOOK

- Journal Pattern
- Pocket sized: 3-1/4" x 5"
- 100 pages/50 sheets
- Polydura cover with wire-o binding
- Opens from the side

393-M ..... $3.75 each
12+ ..... $3.50 each

FIELD-FLEX BOUND BOOKS

Field-Flex Perfect Bound Books are made with a soft, flexible cover material that is great for pockets and packs but as durable as the other hard bound books.

FIELD-FLEX STANDARD

- Universal Pattern
- 4-5/8" x 7-1/4"
- 128 pages/64 sheets
- Polydura cover with wire-o binding
- Opens from the side

374 ..... $13.50 each
12+ ..... $12.50 each

Construction Safety Products, Inc.

Shop our Survey Supplies online @ www.cspsurveyequipment.com

ALL-WEATHER WRITING MATERIALS

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

FIELD-FLEX MAXI

- Universal Pattern
- 8-1/2" x 11"
- 128 pages/64 sheets

374-MX ..... $16.25 each

FIELD-FLEX TALLY BOOK

- Traditional Tally Book format including size and page patterns
- 140 pages/70 sheets

324 ..... $7.50 each
12+ ..... $7.25 each

FIELD-FLEX POCKET MEMO

- Universal pattern
- 3-1/2" x 5" 112 pages/56 sheets

374-M..... $4.25 each
12+ ..... $3.95 each

GRID PADS

Rite-in-the-Rain Grid Pads have plenty of room to sketch and take notes.

- Sheets are padded in 50's and 3 hole punched
- 2 pads/100 sheets per pack

ITEM	PATTERN
1104	Cross Section-1/4" grid
1110	Cross Section-1/10" grid
1136	Journal
1140	Metric Cross Section 2mm grid
1150	Metric Cross Section 5mm grid
1190	Isometric Grid

1-4 ..... $15.50 each
5+ ..... $14.75 each

LOOSE-LEAF PAPER

LOOSE LEAF PAPER - STANDARD SIZE

- 4-5/8" x 7"
- Pack of 100
- Fits binders #200 and #210

ITEM	PATTERN
302	Transit
312	Level
342	Cruiser's Transit
352	Field
362	Metric Field
372	Universal
382	Metric Grid
392	Journal
395	Blank

1-5 ..... $12.50 each
6+ ..... $12.00 each

LOOSE LEAF PAPER - SMALL SIZE

- 4-5/8" x 7"
- Pack of 100
- Fits binder #204

304 Transit
314 Level
396 Blank

1-5 ..... $12.50 each
6+ ..... $12.00 each

WETLAND DETERMINATION FORMS

These forms reflect the updated U.S. Army Corps of Engineers forms. Will survive the field conditions they are designed for.

Item	Pattern	Size, Sheets
1180	Arid West Region	8.5" x 11", 50
1181	Alaska Region	8.5" x 11", 50
1182	Western Mtns, Valleys & Coastal Region	8.5" x 11", 50
1183	Caribbean Islands Region	8.5" x 11", 50
1184	Midwest Region	8.5" x 11", 50
1185	Great Plains Region	8.5" x 11", 50
1186	Atlantic Plains & Gulf Coastal Plains Region	11"" x 17", 25
1187	Northcentral & Northeast Region	11"" x 17", 25
1188	Hawaii & Pacific Islands Region	8.5" x 11", 50
1189	Eastern Mtns & Piedmont Region	11"" x 17", 25

Double-sided pack ..... $12.50 each

295 Heavy Polydura Field Desk ..... $18.95 each

ALL-WEATHER WRITING MATERIALS

"Rite in the Rain®" ALL-WEATHER WRITING PAPER

LOOSE-LEAF COPIER PAPER

Laser print or photocopy your own custom loose leaf paper. Each sheet has two 4-5/8" x 7" pre-perforated loose leaf sheets ready to punch out and put in your Rite-in-the-Rain Field Binders. Available in White, Green and Tan. Download templates at www.riteintherain.com

LL8511 White
LL9511 Green
LL9511T Tan

150 sheets per pack/300 loose leaf sheets.....$34.95 per pack

ALL WEATHER COPIER PAPER

Copy or laser print your own all-weather forms, charts, maps and work sheets. Completely recyclable wood-based paper. Printable on both sides. Not for inkjet printers.

ITEM	SIZE	SHEETS	PRICE
8511-M	8.5" X 11"	25	$10.50
8517	8.5" X 17	200	$59.25 4+ $56.95
8514	8.5" X 14"	200	$39.25 5+ $38.25
8511	8.5" X 11"	200	$29.50 5+ $28.50 10+ $27.75

WEATHERJET INKJET PAPER

Has a micro-porous surface that turns standard ink-jet inks into permanent, waterproof markings. Print on both sides. Not for photocopiers or laser printers. Can be written on with an all-weather pen only – pencils won't work. 8 mil.

7511	8.5" x 11"	100 sheets	$77.95
7511-M	8.5" x 11"	25 sheets	$21.50
7517	11" x 17"	100 sheets	$164.95
7517-M	11" x 17"	25 sheets	$43.95

DURACOPY SYNTHETIC COPIER/LASER PAPER

- 8.5" x 11" - 100 sheets
- Ideal for any extreme situation
- Printable on both sides
- Not for ink-jet printers
- 4 mil.

6511.....$64.25 per pack

FIELD RING BINDER COVERS

Made of durable tan cordura with rugged zipper closure and holds up to 4 writing utensils

C9200 For the 200 & 204 1/2" capacity binders.....$15.95 each
C9210 For the 210 1" capacity binders.....$16.95 each

Tan Cordura Cover

This tough Tan CORDURA® fabric Bound Book Cover will fit all of our 4-5/8 in x 7 in Spiral Notebooks, 4-5/8 in x 7 1/4 in Field-Flex Books, Pocket-sized, and regular sized Bound Books. It has a rugged zipper closure and holds up to 4 writing utensils!

C980.....$16.50 each

LOOSE LEAF FIELD RING BINDERS

Made of Polydura and rust-resistant materials

200 Standard Size (1/2" Capacity).....$10.50 each
210 Standard Size (1" Capacity).....$11.50 each
204 Small Size (1/2" Capacity).....$10.25 each

RITE-IN-THE-RAIN® FIELD DESK

Store up to 200 8.5" x 11" forms, pencils and other field equipment inside this durable Polydura plastic shell. It has a warmer feel than a metal clipboard. Lightweight and completely weatherproof.

295.....$18.95 per pack

ALL-WEATHER WRITING MATERIALS

"Rite in the Rain®" ALL-WEATHER WRITING PAPER

ALL-WEATHER PENS

Write on wet paper, and upside down in temperatures from -30° F to 250° F. The All-Weather Bullet Pen closes to only 3-3/4" long. Ink is available in black, blue and red.

STANDARD CLICKER PEN

Chrome/Plastic Barrel

37 (Black Ink) ..... $9.60 each
47 (Blue Ink) ..... $9.60 each
57 (Red Ink) ..... $9.60 each
12+ ..... $9.25 each

TACTICAL BLACK CLICKER PEN

Flat Black Metal Barrel

97 (Black Ink) ..... $10.75 each
97B (Blue Ink) ..... $10.75 each
12+ ..... $10.00 each

BULLET PEN

Closes to only 3-1/4" long

36 Silver Bullet Pen (Chrome Metal) ..... $19.25 each
96 Tactical Black Bullet Pen (Black Metal) ..... $19.25 each
86 .375 MAG Brass Bullet Pen (Brass Metal) ..... $24.25 each

REFILLS FOR ALL PENS

37R (Black Ink) ..... $6.75 each
47R (Blue Ink) ..... $6.75 each
57R (Red Ink) ..... $6.75 each
12+ ..... $5.75 each

PEN HOLSTERS

Made of Cordura Nylon and Elastic – fits around field books to keep your pen handy.

STANDARD SIZE PEN HOLSTER

Fits standard Bound Books, Field-Flex Books & Side-Spiral Notebooks

C97 ..... $6.50 each

MINI-PEN HOLSTER

Fits 3-1/2" x 5" and smaller side bound Memo Book styles

C97-M ..... $6.25 each

PEN HOLSTER KIT

- Fits Standard Bound Books, Field-Flex & Side-Spiral Notebooks
- Includes C97 Pen Holster & No. 97 All-Weather Pen

PEN HOLSTER KIT C97-KIT ..... $16.95 each

"Rite in the Rain®" ALL-WEATHER WRITING PAPER

DID YOU KNOW...

- **In spite of Rite® in the Rain's durability, it is totally recyclable as standard paper, which is untrue of synthetic, or poly coated papers. Simply recycle Rite in the Rain as you do other white or printed papers.**
- **Rite in the Rain®'s unique "Polydura" cover and reference card substrate contains post-consumer recycled materials and is recyclable. (Recycled milk, shampoo bottles, etc.)**

DISTANCE MEASURERS

ROLATAPE CORPORATION

MODEL MM-12 MEASURING WHEEL

- 1’ circumference wheel
- Safety green color
- Measures up to 10,000’ in feet and inches
- 3-piece telescoping handle with Quick-Click™ feature

MM-12 Ft./Inches .....$42.95 each

MODEL MM-30 MEASURING WHEEL

- 3’ circumference wheel
- Safety green color
- Measures up to 10,000’ in feet and inches
- 3-piece telescoping handle with Quick-Click™ feature

MM-30 Ft./Inches ..... $91.95 each
MM-30M Metric..... $92.95 each

MODEL 300 MEASURING WHEEL

The Model 300’s features include all steel construction, 5 digit ratchet counter and calibrated wide rubber 3’ circumference wheel. Safety orange color. Measures up to 100,000’. Lift-and-lock handle makes transport and storage easy.

300R Ft./Inches ..... $104.95 each
32-401 Ft./Inches – Belt Driven ..... $174.95 each

MODEL 400 MEASURING WHEEL

All steel construction handles the toughest measuring needs for all critical measuring applications. Measures up to 100,000’ in feet and inches. 4’ circumference spoke wheel. Wheel stand to keep the wheel upright when not in use. Wheel brake allows you to transport to second site without losing existing measurement. Safety orange color.

1800-400 Ft./Inches ..... $139.95 each
400M Metric..... $169.95 each

MODEL 415 MEASURING WHEEL

Same features as the Model 400, except the Model 415 features a solid disk wheel that allows you to move through brush without catching in the spokes.

1800-415 Ft./Inches .....$149.95 each
415M Metric.....$188.95 each
1800-415D Ft./Inches, Dual Counter.....$198.95 each

REPLACEMENT PARTS FOR MODELS 400/415

60-400 Counter for English or Metric models ..... $32.95 each
(Two required for dual counters)

KOMELON

KOMELON MEASURING WHEEL

The Komelon 14.3” Diameter Wheel features a comfortable pistol grip, adjustable twist and lock handle, accurate gear-driven 5 digit counter that reads up to 10,000’ with push button reset, polyvinyl tread for improved traction and a kickstand molded into the counter housing.

MK4512 Ft./Inches ..... $69.95 each

Industry Applications:

Contractors, Estimators, Engineers, Landscapers, Paving Contractors, Fencing Specialists, Real Estate Pros, Utility Personnel, Surveyors, Police Work, Facility Engineers, Telecommunications Contractors.

CALCULATED INDUSTRIES

CALCULATED INDUSTRIES DIGIROLLER™ PLUS II

Get fast, accurate measurements for on-site Linear, Area and Volume estimates. Built-in functions automatically calculate and store Square Footage, Volume and more for up to nine different areas. Works in and converts in all U.S. and Metric units. Weighs just 3 lbs. – Includes convenient kickstand, wrist strap and easy-to-understand User’s Guide.

- Calculate and store Linear and Area measurements. Roll and label the “Length” and “Width” to find Area, or store and recall later.
- Stores multiple units of measurement.
- Works in and converts between Feet-Inches, Decimal Feet, Decimal Inches, Yards and Acres.
- Built-in user Memory for accumulating counts of measurements.

6425.....$164.95 each
*** Must purchase 2’ or 4’ wheels separately**

MEASURING SUPPLIES

CHALK & CHALK LINE

KESON® QUICK FILL CHALK LINE REEL

Chalk line reel is made of light weight, space age, cycolac®. Line is 100' and made of spun polyester which has the strength of nylon and the holding power of cotton. Filling is a breeze with the quick fill rubber grommet. Simply insert spout and squeeze the bottle. Pull spout out and the grommet self seals.

FB2 ..... $5.25 each

KESON
MAKE YOUR MARK

KESON® QUICK RETURN CHALK LINE REEL

Chalk line reel is made of light weight, space age, cycolac®. Simply disengage gear drive with pressure on handle and it's free-wheeling. Release the pressure and it locks in place. Flip handle over and line rewinds 3.5 times faster than conventional chalk line reels. It's a real time saver! Line is 100' and made of spun polyester which has the strength of nylon and the holding power of cotton. Easy fill grommet.

GB1.....$7.50 each

KESON® GIANT CHALK LINE REEL

The Giant gives every professional tradesman a big edge in efficiency. Use it for all layout work, cement construction, parking lot striping, road building, roofing repair, new construction, fence building, etc. Mounts easily to utility belt. Heavy steel, one-piece crank handle. Holds almost 1 lb. of chalk. 100' long, wide imprint cotton/poly cord. Easy fill grommet.

G100 ..... $21.95 each

KESON® PROCHALK MARKING CHALK

Keson® ProChalk is formulated to achieve a perfect line every time. Brilliant color tones provide strong, sharp lines. From the brightest pigments in the industry, Keson® produces standard colors plus a unique, fluorescent Glo colors for improved visibility.

Part #	Color	Size	Price 1-11	Price 12+
8B	Blue	8 ounces	$1.30	$1.05
8R	Red	8 ounces	$1.30	$1.05
8W	White	8 ounces	$1.30	$1.05
8-GO	Glo-Orange	8 ounces	$2.00	$1.85
105B	Blue	5 pounds	$8.95	--
105R	Red	5 pounds	$8.95	--
105W	White	5 pounds	$8.95	--
105-GO	Glo-Orange	5 pounds	$11.50	--

CROWE DURALINE® TWINES

Constructed from 100% filament nylon. This twine is resistant to abrasion, rot, mildew, grease, oil and many chemicals. Can be used for trot lines, chalk lines, duck decoys and gardening.

0089 #18 X 275'..... $2.95 each
0091 #18 X 1050'..... $9.95 each

FASTMEASURE

FAST MEASURE Distance Measuring Devices

The FastMeasure distance measuring device easily mounts to the dashboard and is designed to help contractors and engineers quickly and accurately measure parking lots, roads, utilities and more in the comfort of their car up to highway speeds with unparalleled accuracy. FastMeasure can also be mounted on anything that rolls including ATV's, grinders, concrete saw, crack routers, striping machines, etc. for reliable job accounting.

FM1 ..... $399.00 each
3+..... $379.00 each

CUSTOMER NOTES:

Construction Safety Products, Inc.

KESON FIBERGLASS MEASURING TAPES

KESON FIBERGLASS LONG TAPES

Open-Type Reel, Ultra-Glass Blade
For over 40 years, Keson fiberglass tapes have met the highest standards of accuracy for quality measurements. They resist breakage and damage under the toughest field conditions. Each blade is covered with two coats of PVC, one to bind the fiberglass strands and a second over the printed units, so the numbers don't wear away.

- Tough, molded handle is easy to grasp.
- The crank handle is reinforced with metal to provide years of rugged use
- Double-throat rollers guide the blade return and prevent the tape from twisting
- Double screws to hold the housing together in the event of a drop.
- Better blade axle to reduce breakage due to the weight of the tape if dropped.
- Limited Lifetime Warranty

10 Series:

• Graduated in feet, 10ths, 100ths on one side

OTR-10-50	50' Tape	$15.95
RF-10-50	50' Refill	$9.95
OTR-10-100	100' Tape	$25.25
RF-10-100	100' Refill	$15.95
OTR-10-200	200' Tape	$47.95
RF-10-200	200' Refill	$36.95
OTR-10-300	300' Tape	$67.95
RF-10-300	300' Refill	$47.25

80 Series:

• Graduated in feet, inches, 8ths, on one side

OTR-18-50	50' Tape	$15.95
RF-18-50	50' Refill	$9.95
OTR-18-100	100' Tape	$25.25
RF-18-100	100' Refill	$15.95
OTR-18-200	200' Tape	$47.95
RF-18-200	200' Refill	$36.95
OTR-18-300	300' Tape	$67.95
RF-18-300	300' Refill	$47.25

Metric Series:

• Graduated in meters, centimeters, 2mm on other side

OTR-15M	15m Tape	$16.50
RF-15M	15m Refill	$10.50
OTR-30M	30m Tape	$25.50
RF-30M	30m Refill	$19.95
OTR-50M	50m Tape	$38.50
RF-50M	50m Refill	$31.50

1810 Series:

• Graduated in feet, 10ths, 100ths on one side

• Graduated in feet, inches, 8ths, on other side

OTR-1810-100	100' Tape	$25.50
RF-1810-100	100' Refill	$19.25
OTR-1810-200	200' Tape	$49.95
RF-1810-200	200' Refill	$39.95
OTR-1810-300	300' Tape	$66.95
RF-181010-300	300' Refill	$43.25

10M Series:

• Graduated in feet, 10ths, 100ths on one side

• Graduated in meters, centimeters, 2mm on other side

OTR-10M-100	100' Tape	$26.95
RF-10M-100	100' Refill	$19.50
OTR-10M-200	200' Tape	$55.95
RF-10M-200	200' Refill	$43.50
OTR-10M-300	300' Tape	$76.50
RF-10M-300	300' Refill	67.00

18M Series:

• Graduated in feet, inches, 8ths, on one side

• Graduated in meters, centimeters, 2mm on other side

OTR-18M-100	100' Tape	$26.95
RF-18M-100	100' Refill	$19.50
OTR-18M-200	200' Tape	$55.95
RF-18M-200	200' Refill	$43.50
OTR-18M-300	300' Tape	$74.25

KESON MC SERIES LONG FIBERGLASS MEASURING TAPE, CLOSED CASE

These long, fiberglass tapes have a compact, closed metal case that fits nicely in your hand. The flush-folding crank pops up for easy rewinding. If you're measuring alone, the metal catch hook is set at zero, so there's no need for a correction.

Part Number	Description	Price
MC-10-50	50' Tape, 10ths/100ths	$15.95
RF-10-50	50' Refill, 10ths/100ths	$9.50
MC-10-100	100' Tape, 10ths/100ths	$21.95
RF-10-100	100' Refill, 10ths/100ths	$15.95
MC-18-50	50' Tape, Feet/Inches/ 1/8ths	$15.95
RF-18-50	50' Refill, Feet/Inches/ 1/8ths	$9.50
MC-18-100	100' Tape, Feet/Inches/ 1/8ths	$21.95
RF-18-100	100' Refill, Feet/Inches/ 1/8ths	$15.95

FEATURES:

- Heavy-duty blades with 40,000 strands of fiberglass ensures a long life under the most demanding field use.
- Stretch-resistant, extremely resilient.
- Closed, metal housing protects the tape.
- Blade is 1/2-inch.
- The crank handle is metal to provide years of rugged use.
- Double-throat rollers guide the blade return and prevent the tape from twisting.

FIBERGLASS MEASURING TAPES

LUFKIN HI-VIZ® ORANGE LINEAR FIBERGLASS TAPE

- Durable 1/2” wide fiberglass tape
- Non-conductive, easy-to-read black, red markings, yellow background
- Lightweight high impact ABS winding drum for smooth tape recovery
- Blaze orange case
- Lightweight high impact ABS case

Closed Reel - Graduated on one side:

Part Number	Item Description	Blade Style	Price
706L	100’ in Feet, Inches, 8ths	C1	$25.00
O706L	Replacement Blade for 706L	C1	$16.75
706D	100’ in Feet, 10ths, 100ths	C2	$25.00
O706D	Replacement Blade for 706D	C2	$16.75

Closed Reel

Open Reel - Graduated on one side

Part Number	Item Description	Blade Style	Price
1706	100’ in Feet, Inches, 8ths	C1	$25.00
O706L	Replacement Blade for 1706		$16.75
1706D	100’ in Feet, 10ths, 100ths	C2	$25.00
1707	150’ in Feet, Inches, 8ths	C1	$27.00
1707D	150’ in Feet, 10ths, 100ths	C2	$27.00
1708	200’ in Feet, Inches, 8ths	C1	$51.00
1708D	200’ in Feet, 10ths, 100ths	C2	$51.00
1709	300’ in Feet, Inches, 8ths	C1	$73.00
1709D	300’ in Feet, 10ths, 100ths	C2	$73.00

Open Reel Graduated on One Side

Open Reel - Combination English & Metric:

Part Number	Item Description	Blade Style	Price
FM015CME	15m/50’	C4	$14.95
FM030CME	30m/100’	C4	$25.00
FM030DM	30/100’	C7	$25.00
FM050CME	50m/150’	C4	$28.95
FM060CME	60m/200’	C4	$32.95
FM100CME	100m/328’	C4	$59.95

Open Reel Combo English/Metric

Open Reel - Metric:

Part Number	Item Description	Blade Style	Price
HY1730CM	30m in Meters, Centimeters, Decimeters	C3	$25.00
HY1750CM	50m in Meters, Centimeters, Decimeters	C3	$40.50

SOKKIA FIBERGLASS APPRAISER’S TAPE

- Large hook on end to catch the edge of a building helps insure accuracy.
- 100’ tape is graduated in feet, 10ths and 100ths on one side, feet and inches on the other side.

8456-74 100’ Tape .....$19.25 each
8456-84 100’ Refill.....$19.25 each

MEASURING TAPES

LUFKIN SUPER HI-WAY® NUBIAN®

- Nominal thickness .017”
- Easy-to-read raised graduations
- Lines have a blank space at each end
- Extra foot before zero graduated right to left to 1/10ths and 1/100ths
- Balance marked every foot except last foot of each 100’ length, 100ths

O9100B	5/16” x 100’ Tape Refill	$179.95 each
O9200B	5/16” x 200’ Tape Refill	$349.95 each
O9300B	5/16” x 300’ Tape Refill	$499.95 each
31-100	Reel for 100’ Tape	$79.95 each
31-200	Reel for 200’ Tape	$149.95 each
31-300	Reel for 300’ Tape	$194.95 each

KESON SURVEYORS ROPE - FIBERGLASS

Makes an ideal drag chain for rough surveying measurements. Numbers are graduated from the strap handle upward to the end of the rope.

- Tough, flexible and lightweight.
- White with black and red markings.
- Coating: Clear Coat.
- Tensile Strength: 100kg / 200 lbs.
- Width: 1/4"
- Blade Material: Fiberglass

Part Number	Item Description	Price
SR10100	100’ in Feet, 10ths	$15.25
SR10200	200’ in Feet, 10ths	$22.95
SR-10-300	300’ in Feet, 10ths	$30.25
SR18100	100’ in Feet, Inches	$15.25
SR18200	200’ in Feet, Inches	$22.95
SR-18-300	300’ in Feet, Inches	$30.25
SR-30M	30m in Meters by 5cm	$15.25
SR-50M	50m in Meters by 5cm	$22.95
SR-100M	100m in Meters by 5cm	$30.25

LUFKIN PRO SERIES TAPE, NYCLAD YELLOW STEEL, 3-TO-1 REWIND

Durable nylon coating on blade resists wear under extreme conditions.

- Super fast 3-to-1 blade retraction saves time in the field
- Steel blade will not stretch under normal use
- Engineers’ Scale - 10ths & 100ths of feet

Part Number	Item Description	Price
PS1806	100’ in Feet, Inches, 8ths	$49.95
PS1806D	100’ in Feet, 10ths, 100ths	$49.95
PS1808	200’ in Feet, Inches, 8ths	$76.95
PS1808D	200’ in Feet, 10ths, 100ths	$76.95
PS1809D	300’ in Feet, 10ths, 100ths	$124.95

CUSTOMER NOTES: _____

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POWER TAPES

KOMELON®

THE TRADESMEN CLOSED CASE 50' TAPE

The Tradesmen has a dynamic and versatile ring end hook providing easier one person measurement. The acrylic coated blade is strong and has proven durability. Komelon's Tradesmen has a compact case with a belt clip for convenient storage.

- 50' x 3/8"
- Acrylic coated blade with versatile end hook
- Compact case design with belt clip
- Folding rewind crank on backside of tape measure
- Inches and Feet

905A..... $11.95 each

KOMELON POWER TAPE

Komelon's Power Tape is affordable, functional, and extremely valuable. The Power Tape has a thick, high carbon steel blade, a triple riveted end hook, and an extremely durable ABS case.

- Compact, durable ABS case
- Thick, high carbon steel blade
- Acrylic coated steel blade with triple riveted end hook
- Inches/Feet

3916A 3/4" X 16'..... $6.95 each
3925 1" X 25'..... $7.95 each

THE PROFESSIONAL, CHROME

Built to perform and last, this is an ergonomically designed chrome tape that can complete any job. The Professional has Komelon's nylon coated blade which is stopped and locked with a powerful slide lock.

- Ergonomically designed chrome case
- Nylon coated steel blade
- Slide lock to hold blade

412 5/8" x 12' – Inches/Feet..... $5.95 each
416 5/8" x 16' -- Inches/Feet..... $7.95 each
425A 1" x 25' – Inches/Feet..... $9.95 each
430A 1" x 30' – Inches/Feet..... $11.95 each
425IE 1" x 25' – Inch/Engineer Scale..... $10.95 each

Construction Safety Products

Shop our Survey Supplies online @ www.cspsurveyequipment.com

Lufkin®

LUFKIN HI-VIZ® ORANGE SERIES 1000 POWER TAPES

- Hi-Viz® orange case - easy to find on the job
- Case designed to fit perfectly in the hand
- Lightweight, high strength case, fits easily into most tape holsters
- Bright yellow blade has clear easy-to-read numerals
- Toggle lock is positioned for convenient operation
- Holds the blade securely in any position
- Cushioned blade return
- Removable belt clip

ENGLISH

HV1312 A2 Blade - 3/4" x 12'..... $7.95 each
HV1316 A2 Blade - 3/4" x 16'..... $10.95 each
HV1325 A2 Blade - 3/4" x 25'..... $12.50 each
HV1425 A2 Blade - 1" x 25'..... $12.25 each
HV1433 A2 Blade - 1" x 33'..... $19.95 each

ENGINEER'S

HV1312D A4 Blade - 3/4" x 12'..... $8.95 each
HV1325D A4 Blade - 3/4" x 25'..... $13.95 each
HV1048DM A29 Blade - 1" (25mm) x 25' (7.6m)..... $13.95 each
HV1425D A4 Blade - 1" x 25'..... $14.25 each

METRIC

HV1035CM A9 Blade - 19mm x 5m)..... $10.95 each
HV1048CM A9 Blade - 25mm x 8m..... $13.95 each

COMBINATION: ENGLISH/METRIC

HV1035CME A13 Blade - 3/4" x 16',(5m)..... $11.95 each
HV1038CME A30 Blade - 3/4" x 26' (8m)..... $12.95 each

LUFKIN EXECUTIVE® THINLINE POCKET TAPE

- Convenient for office, briefcase, or pocket
- 6' easy-to-read blade
- Power retraction

W606 A16 Blade, Inches/8ths - 1/4" x 6'..... $15.95 each
6+..... $14.95 each
W608 A16 Blade, Inches/8ths - 1/4" X 8'..... $16.95 each
W606ME A17 Blade, English/Metric - 1/4" X 2M (6')..... $16.95 each
6+..... $15.95 each

POWER TAPES

LUFKIN HI-VIZ® ORANGE UNIVERSAL LIGHTWEIGHT LONG STEEL TAPES, CLOSED REEL

- High impact polystyrene Hi-Viz ® orange case
- Yellow clad blade .005”/0.13mm thick
- Easy wind nylon drum
- Easy-to-read black and red markings
- Hook ring is retained neatly in the contoured mouth of the case
- Removable belt clip
- All tapes are carded
- Has a 2-sided end hook for use with either scale

50A 3/8” x 50’ – Feet, Inches, 8ths ..... $16.95 each
100L 3/8” x 100’ – Feet, Inches, 8ths ..... $21.95 each

Metric Tapes: Meters on one side, Inches/Feet on other side
HV15CME 10MM X 15M ..... $16.95 each
HV30CME 10MM X 30M ..... $21.95 each

LUFKIN PEERLESS CHROME-CLAD STEEL TAPES

- Chrome Clad® blade
- 1/4”/6mm wide and .016” thick
- Designed for engineers and surveyors who prefer a 4-arm reel
- Subdivided line removes easily from reel
- Long, easy-action winding handle that locks line in any position
- Reel is nickel plated, 4-arm with rollers in each arm for smooth winding
- Open design construction aids in drying line and clearing out dirt
- Pair of 580 finger rings, a 579 engineer’s conversion rule are furnished

C1276 100’ Tape in Feet, Inches, 8ths ..... $209.95 each
OC1276 100’ Replacement Blade ..... $189.95 each
C1276D 100’ Tape in Feet, 10ths, 100ths..... $209.95 each
OC1276D 100’ Replacement Blade ..... $179.95 each
C1278D 100’ Tape in Feet, 10ths, 100ths..... $399.95 each
OC1278D 200’ Replacement Blade ..... $349.95 each

METRIC TAPES: 10THS/100THS ON ONE SIDE, MM ON OTHER SIDE

C2730DMM 100’/30m Combo Eng/Metric Tape ..... $209.95 each
OC2730DMM 100ft/30m Replacement Blade ..... $179.95 each

LUFKIN MEZURALL® POWER RETURN TAPE

- Chrome plated case
- Yellow clad blade
- Power retraction operation
- Belt clip

W9210ME A11 Blade - 1/2” x 10’ (3m), English/Metric ..... $10.95 each
W9312D A4 Blade - 3/4” x 12’, 10ths,100ths..... $14.95 each
W9212 A1 Blade - 1/2” x 12’, Inches/Feet ..... $13.95 each

Lufkin®

LUFKIN PEERLESS YELLOW-CLAD TAPES

- Designed for engineers and surveyors who prefer a 4-arm reel
- Yellow Clad blade
- 1/4”/6mm wide and .016” thick
- Subdivided line removes easily from reel
- Long, easy-action winding handle that locks line in any position
- Reel is nickel plated, 4-arm with rollers in each arm for smooth winding
- Open design construction aids in drying line and clearing out dirt
- Pair of 580 finger rings, a 579 engineer’s conversion rule are furnished

INCHES

Y1276 1/4” X 100’ ..... $189.95 each
Y1278 1/4” X 200’ ..... $274.95 each
Y1279 1/4” X 300’ ..... $395.95 each

10THS

Y1276D 1/4” X 100’ ..... $189.95 each
Y1278D 1/4” X 200’ ..... $274.95 each
Y1279D 1/4” X 300’ ..... $395.95 each

LUFKIN SERIES 2000 POWER RETURN TAPES

- Removable belt clip
- Cushioned blade return
- Virtually unbreakable Quad Hook
- Fits easily into most tape holsters
- Case designed to fit perfectly in the hand
- Lightweight, high strength chrome finished case
- Bright yellow blade has clear easy-to-read numerals
- Toggle lock positioned for convenient operation, holds blade securely

Feet, Inches, 8ths:

2125A A5 Blade 1” x 25’ ..... $20.75 each
2325 A5 Blade 3/4” x 25’..... $18.95 each
2312 A2 Blade 3/4” x 12’..... $14.50 each
2130 A5 Blade 1” x 30’ ..... $21.95 each

Engineer’s, Feet, 10ths, 100ths:

2312D A4 Blade 3/4” x 12’..... $13.95 each
2325D A4 Blade 3/4” x 25’..... $18.95 each
2133D A4 Blade 1” x 33’ ..... $25.95 each

****REFILLS AVAILABLE FOR MOST TAPES****

FOLDING RULERS

Lufkin®

LUFKIN WOOD RULE RED END®

- Marked both sides, both edges
- Graduated to 1/16ths both edges
- 16" stud centers marked in red
- Regular outside markings
- 5/8" x 6'

066 **1-5** ..... **$11.95 each**
6+ ..... **$10.95 each**

066

LUFKIN ENGINEER'S SCALE WOOD RULE RED END®

- Red foot figures
- Regular outside markings in feet, inches and 1/16ths
- Decimal points on engineer's scale prevent reading errors

1066D **6' x 5/8" - Graduated in feet, 1/10ths and 1/100ths of feet**
1066DM **2M x 5/8" - Graduated in millimeters and feet, 1/10ths and 1/100ths**
1-5 ..... **$17.95 each**
6+ ..... **$15.95 each**

1066DM

LUFKIN METRIC & ENGLISH WOOD RULE RED END®

- Marked both sides, reading left to right on both sides
- Graduated in millimeters with centimeter, meter markings on metric side
- English side is marked to 1/16ths

062CME **2m x 5/8" - Metric and English**
1-5 ..... **$12.95 each**
6+ ..... **$10.95 each**

1066D

LUFKIN TWO WAY® WOOD RULE RED END®

- For measuring left to right, right to left
- Marked both sides
- Graduated in feet, inches and 1/16ths on both sides and both edges
- Flat inside markings lie close to the work
- 5/8" x 6'

966 ..... **$12.95 each**

966

LUFKIN WOOD RULE RED END® WITH 6" SLIDE RULE EXTENSION

- Graduated slide rule extends up to 6"
- Slide rule runs under friction in T-slot
- Stops at each end to prevents slide from falling out
- Marked both sides and both edges
- Graduated to 1/16ths of an inch
- 16" stud centers in red, regular outside markings
- 6' x 5/8"

X46 ..... **$17.95 each**

X46

RHINO RULERS – 5/8" X 6'

These waterproof, folding rulers are very heavy duty. Made of Fiberglass, they are waterproof and wear resistant. They come in many scales and are embossed so won't wear away under harsh working conditions. Call for other scales and more info.

55125 **Engineer's Scale**
1-5 ..... **$16.95 each** **6+** ..... **$15.95 each**
55145 **Carpenter's Scale**
1-5 ..... **$15.95 each** **6+** ..... **$14.95 each**
55155 **English/Metric Scale**
1-5 ..... **$15.95 each** **6+** ..... **$14.95 each**
55160 **Carpenter's Scale w/6" Sliding Extension**
1-5 ..... **$17.95 each** **6+** ..... **$15.95 each**

SCALES & RULERS

C-THRU® A-23 - AREA SCALE 660

1-1/16" x 8-5/16" Opaque laminated area scale with calibrations of 1" to 660' on one edge. The opposite edge is calibrated 1" to 40 rods and 1" to 10 chains.

A-23 ..... **$3.95 each**

C-THRU® A-26 - LAND MEASURE COMPASS

5" diameter transparent land measure compass divided into four quadrants, each graduated from 0 to 90°. North and South are zero points and East and West are marked with 90°. Laminated for durability.

A-26 ..... **$3.95 each**

A-26A - LAND MEASURE COMPASS WITH ARM

Same as above with cursor arm – used to lay out a property description.

A-26A ..... **$5.25 each**

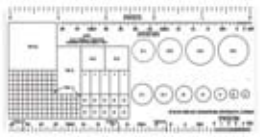
C-THRU® A-29 - AREA SCALE

Transparent area scale with the following calibrations: 1" = 660' = 1/8 mile; 1" = 1 rod; 1" = 440'=1/12 mile; 1" = 10/tenths. In the center are equal dotted squares, a 1 dot square=0.1 acre; 1 25 dot square = 2.5 acres; and large squares = 10 acres. Laminated for durability. 2-1/2" x 6-3/8"

A-29 ..... **$4.35 each**
12+ ..... **$3.95 each**

C-THRU® A-31 - AREA SCALE

Transparent area scale for quick plotting and estimating number of acres on 660 scale. Calibrations include 1" = 660', 1" = 1,320' and a 10ths scale. Laminated for permanent printing. 2 -3/4" x 5"



A-31 ..... **$3.75 each**

C-THRU® - 6" PROTRACTOR RULERS

W-37 - 10THS/50THS

Transparent 180° protractor with 10ths and 50ths to the inch scales. Laminated for durability. 1-1/2" x 6-1/4".

W-37 ..... **$2.15 each**

W-38 - 10THS/20THS

Transparent 180° protractor with 10ths and 20ths to the inch scales. Laminated for durability. 1-1/2" x 6-1/4".

W-38 ..... **$2.15 each**

W-43 – METRIC

Transparent 180° protractor with 1:500 and 1:1000 meter scales. Laminated for durability. 1-1/2" x 6-1/4".

W-43 ..... **$2.15 each**

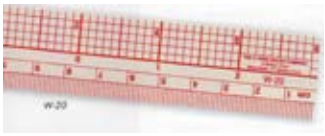
C-THRU® 360° PROTRACTOR, 3-1/2"

Calibrated in degrees. Laminated with solid center.

255 ..... **$1.45 each**

C-THRU® ENGLISH/METRIC RULER

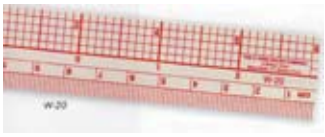
Transparent metric graph ruler with scales in 10ths to the inch and millimeter graduations. Features a zero centering scale. Laminated. 1" x 6"



W-20 1" x 6" ..... **$1.20 each**
W-30 Same as above – 1" x 12" ..... **$1.40 each**

C-THRU® ARCHITECTS' RULER

Transparent architects' ruler with inch scales in 4ths, 8ths, and 16ths to the inch scales. Plus 8ths graph feature. Laminated. 1" x 6"



W-15 ..... **$1.20 each**

C-THRU® 360° CIRCULAR PROTRACTOR, 6"

Calibrated in 1/2°, laminated, beveled edge and cut-out center.

260 ..... **$1.45 each**

SCALES & RULERS

C-THRU® 4" MINIATURE TRIANGULAR SCALES PLASTIC TRIANGULAR SCALES

TS-648 ARCHITECTS' TRIANGULAR SCALE

Has fully divided engraved graduations of 1/8, 1/4, 1/2, 1, 3/32, 3/16, 3/8, and 3/4" to the foot and a scale divided in 16th and 32nd parts to the inch. Color coded.

TS-648 ..... **$10.95 each**

TS-649 - 4 ENGINEERS' TRIANGULAR SCALE

Offers fully divided engraved graduations of 10,20,30,40,50 and 60 parts per inch. Color coded.

TS-649 ..... **$10.95 each**

C-THRU® 12" PLASTIC TRIANGULAR SCALES

TS-656 ARCHITECTS' SCALE, 12"

Numbered in 3/32, 1/8, 3/16, 1/4, 3/4, 1, 1-1/2, 3 to the foot and 16ths to the inch. Fully divided below zero. Printed in 3 colors for easy scale identification. 3/4" x 12-3/4".

TS-656 ..... **$9.95 each**

TS-657 - ENGINEERS' SCALE, 12"

Fully divided, numbered in 10, 20, 30, 40, 50 and 60 parts to the inch. Printed in 3 colors for easy scale identification. 3/4" x 12-3/4"

TS-657 ..... **$9.95 each**

TS-659 METRIC TRIANGULAR SCALE, 30CM

Premium engraved scale fully divided in 1:100, 200, 250, 300, 400 and 500 meters. Color Coded. 2cm x 30cm,

TS-659 ..... **$11.95 each**

ALVIN® RULERS

T40-12 – 12" ACRYLIC RULER

Scratch-resistant, super-clear acrylic with raised edge to prevent smearing.

Scales 1/16 on one edge, metric on opposite edge, blank spaces at ends for easier measuring, plumb line at each end.

T40-12 ..... **$2.25 each**

C-THRU® KT-90 TRIANGLE SET

Features 6" - 45°/90°, 8" - 30°/60°, Inch/Metric calibrations. Cut out center with finger lifts. Beveled edge.

Also sold separately:

KT-90-6 6" - 45°/90° **$1.75**
KT-90-8 8" - 30°/60° **$2.50**

KT-90 Set ..... **$3.50 each**

ALVIN® PROFESSIONAL ACRYLIC TRIANGLES – F SERIES

Fluorescent Orange color. Will not warp or discolor with age and handling. The machined finish and hand-polished edges meet or exceed government standards. The F Series is popular because the refracted light has an illuminated effect on the drawing by accentuating the triangle's edge. Double-taper cutout center for quick, easy lifting from any angle.

130F-4 30°/60° - 4" ..... **$4.75 each**
131F-4 45°/90° - 4" ..... **$4.75 each**
130F-6 30°/60° - 6" ..... **$5.40 each**
131F-6 45°/90° - 6" ..... **$5.40 each**

ALVIN® 740PM SERIES METRIC PLASTIC TRIANGULAR SCALES

Professional quality Metric Scales made from high-impact plastic with white non-reflecting, matte faces and tapered edges. Hot-stamped graduations and color-coded furrows. Includes hard plastic case.

740PM – 1:20, 1:25, 1:50, 1:75, 1:100 SCALES ..... **$13.95 each**
742PM – 1:100, 1:200, 1:250, 1:300, 1:100, 1:500 SCALES ..... **$13.95 each**
744PM – 1:2.5. 1:5, 1:10, 1:20, 1:50, 1:100 SCALES ..... **$13.95 each**
748PM – 1:20, 1:25, 1:33⅓, 1:50, 1:75, 1:100 SCALES ..... **$13.95 each**
6+ (Can mix and match) ..... **$12.25 each**

ALVIN® 260 WHITE PLASTIC FLAT SCALES

- Four–bevel white scales made of high-impact plastic
- Printed graduations.
- Comes with vinyl storage sheath.

267P ..... **$11.95 each**
-6" divided , double numbered: 10,20,40 & 50 parts to the inch, Engineer

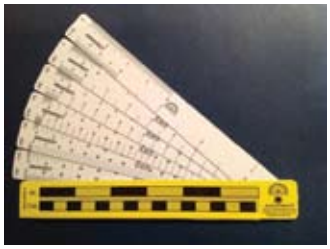
269P ..... **$11.95 each**
10,20,30,40, 50 & 60 parts to the inch, Engineer

SCALES & RULERS

MULTISCALE SCALER

Includes 24 Architect and English/Metric scale ratios.

7-1/2" long yellow vinyl jacket holds 6 leaves printed on both sides with the various scales. Includes Architect Scales from 1/32" to 3", Metric Scales from 20 to 11 parts per m, and Engineer English Scales from 10 to 60 parts per inch.



020 ..... **$12.50 each**
10+ ..... **$10.50 each**

MULITISCALE QUADRANGLE

Includes 12 common Map Scales for measuring distance on topographic quad maps and aerial photos. 7-1/2" gray vinyl jacket holds six leaves printed on both sides. Scales read in feet, miles, meters and chains

60 ..... **$12.50 each**
10+ ..... **$10.50 each**

AERIAL PHOTO CHAIN SCALE

Used to read aerial photos and maps in chains. White vinyl, 6.25" x 1'. Graduated on both sides with the following chains: 1:12,000 (1" = 15 chains), 1:15,840 (1" = 25 chains) all reading directly in chains and inches reading directly in inches to 10ths.

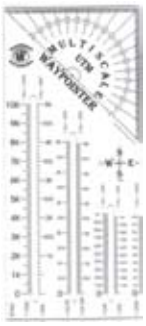
005 ..... **$2.30 each**

WAYPOINTER COORDINATE SCALES

These scales are for use with the most common maps for plotting and reading coordinates for either Latitude/Longitude or UTM in conjunction with various USGS and other maps. They all come with easy to read instructions by example.

THE ORIGINAL WAYPOINTER

- Five Latitude/Longitude Scales that provide quick and simple means of reading & plotting coordinates on maps.
- Clearly defined accurate scales & slots by each scale make it The Best Scale on the market for plotting & measuring Latitude and Longitude coordinates.
- Slots by each scale so positions can be marked on the map.
- Has appropriate scales for the following maps:



7 1/2 Minute Topos
1:24K 15 Minute Topos
1:62.5K 30' x 60' Topo(BLM) 1:100K
1° x 2° U.S. Forest Service
1:126.72K USGS
1:250K

WP-0 ..... **$8.70 each**

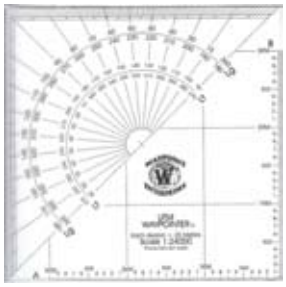
POCKET WAYPOINTER

- Designed for both Lat./Long. and UTM for the 7.5 min Topo (Scale of 1:24,00)
- Two Lat./Long. scales in Min. & Sec. and Min. and Hundredths of a min. Can be used to convert one to the other.
- Quick reference to convert Miles to Meters or vice versa.
- Complete set of easy-to-follow instructions by example.
- Convenient size for use in the field.
- Made of durable .030 vinyl

WP-P ..... **$7.50 each**

UTM WAYPOINTER

- Designed to locate Universal Transverse Mercator Coordinates on 7.5 Minute Topo maps, 1:24K scale.
- Precision clear lines for accuracy
- Provides a protractor for plotting headings.
- Easy to understand and use.
- 6" x 6"



WP-UTM ..... **$6.95 each**

NORTHERN WAYPOINTER

- Scales for measuring Lat/Long and UTM for the most common USGS Alaskan map on the scale of 1:63.36K
- Both Lat/Long and UTM scales for the most common Canadian scale of 1:50K.
- Convenient size so that it will fit in your pocket.
- Comes with a complete set of easy to understand instructions by example. Includes samples of both sizes of maps with examples of how to read and plot Lat/Long and UTM coordinates.

WP-N ..... **$7.50 each**

SCALES & RULERS

RETRO ROAMER

The multiscale RetroROAMER lets you accurately calculate UTM coordinates at a glance on any scale you'll ever need! Just place the unique target hole over the desired map position, and count back to the nearest grid lines. Unique, "one-read" design lets you create waypoints in the field easier than ever before. Ideal for plotting on printouts from topo software.

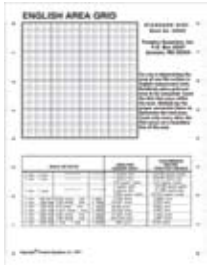
Durable, scratch-resistant tool measures just 4 inches square, with complete instructions printed right on the tool.

Scales for 1:24k, 1:25k, 1:50k, 1: 62,500, 1:63,360. 1:100,000, and 1:250,000 maps.

RETRO ..... $9.95 each

MODIFIED ACREAGE GRIDS (English Area Grids)

4581 **45009**



Used for determination of acreage on maps of any scale. Has 64 dots per inch. Used by merely placing grid over photo and counting dots; then multiply by the proper conversion factor for the scale you are using to obtain total area.

45009 Standard Size 7" x 9" (4 x 4 work area).....$4.25 each
4581 Super Size 9" x 12" (8 x 8 work area).....$5.25 each

ALLEN INDUSTRIAL ENGINEERING SCALES

Use on maps to post oil and gas wells, towers, buildings and tracts of land. White plastic leaves hinged at one end. 23 leaves with 48 scales. Case included. 1" x 7-7/8" x 1/4" folded.

10001-E ..... $18.95 each

ALLEN MISCELLANEOUS SCALES

Designed especially for use on maps drawn to a proportional scale such as 1:1000, 1:250,000 etc. Features a variety of scales – both English and Metric. Government agencies use this system in drawing quadrangle sheets, aeronautical charts etc.

10001-M ..... $18.95 each

ALLEN WELL POSTER

Designed to enable draftsmen to post wells on maps drawn to the scales. The Allen Well Poster is printed on flexible opaque white plastic and laminated with clear vinylite to eliminate friction wear on graduations and numbers.

10001-WP ..... $9.50 each

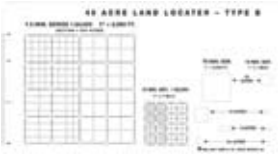
40-ACRE LAND LOCATOR – TYPE A

Used by the U.S. Geological Survey in compiling topographical maps, this tool includes a fractional–acre reference table showing square areas or fractional acres, approximate lot sizes and formulas for conversion of acres and fractional acres. One edge contains a foot scale for simplification of road and driver measurement plus a "distance to" indicator. Boundary locator included. 3-5/8" x 6-5/8". Frosted plastic.

Scale: 1" = 2000', 1" = 1 mile

TD40A ..... $9.75 each

40-ACRE LAND LOCATOR – TYPE B



This template includes features of the Type A Land Locator (sold above). In addition, square holes appear as cutouts in sizes of 2-1/2, 5, 10 and 40 acres. Cut-outs are on both scales, 1" = 2000 ft. (1:24,000) and 1" = 1 mile (1:62,000) and make it easy to draw exact size and location of any area on pin-pointed map. 3-5/8" x 6-5/8". Frosted plastic.

TD40B ..... $10.75 each

CUSTOMER NOTES:

SCALES & RULERS

PORTA-TRACE® PORTABLE LIGHT TABLES

Ideal for use in tracing, drafting, calligraphy, photography, visual aids, graphic arts, transparency and slide viewing, signs, etc. Handy, portable – more economical and easy to use than bulky, old-fashioned light tables. The Porta-Trace can go with you and takes up very little space. Stainless steel case with unbreakable plexiglass top. Includes grounded 6' cord with grounding plug. Color corrected lamps. UL listed. Rubber feet to prevent slipping.

Number	Description	Price
1118-2	11" x 18" – Two 15 watt-5000K bulbs – Weighs 8 lbs. Strong, nearly uniform lighting. Back leg allows table to be tilted. Does not have a carrying handle	$135.95
1618-4	16" x 18" – Four 15 watt-5000K bulbs – Weighs 12 lbs. Strong, nearly uniform lighting with two switches, each of which controls one or two of the lamps allowing the user to vary the lighting. Back leg allows table to be tilted.	$256.95
1824-3	18" x 24" – Three 18 watt-5000K bulbs – Weighs 14 lbs. - Strong, nearly uniform lighting with two switches, each of which controls one or two of the lamps allowing the user to vary the lighting. Has a carrying handle.	$296.95
1824-4	18" x 24" – Four 18 watt-5000K bulbs – Weighs 15 lbs. Two switches, each of which controls one or two of the lamps allowing the user to vary the lighting. Uniform lighting	$336.95
2436-6	24" x 36" – Six 18 watt-5000K bulbs – Weighs – 26 lbs. Two switches, each of which controls one or two of the lamps allowing the user to vary the lighting. Most uniform lighting.	$407.95

SOKKIA™ POCKET STEREOSCOPE

- 2x or 4x magnification with interpupillary range from 55mm to 75mm
- Field of view: 125mm x 125mm; optical path: 50mm
- Pocket case included

8179-502x Pocket Stereoscope.....$47.95 each
8179-514x Pocket Stereoscope.....$47.95 each

STUDENT POCKET STEREOSCOPE

- 2.2 magnification
- Adjustable interpupillary range
- Folding metal legs

SPS-1 SPS-1.....$8.95 each
6+..... $7.95 each

AERIAL STEREOGRAMS -BOOK OF AERIAL STEREOGRAPH PHOTOGRAPHS

-by Harold L. Wanless, Dept. of Geology, Univ. of Illinois

An introduction to geology, geography, conservation, forestry, and surveying using stereo photographs. Features 92 stereo pairs of landforms, rock structures, vegetation, soil types, and conservation are bound in one volume to keep pairs together. Shows elevations, depressions and contours of natural terrain. 8-1/2" x 11". Specially spiral bound to lay flat for optimum viewing.

580..... $15.95 each

READING MAPS – STEREOGRAMS

-by Paul A. Riffle, Ph.D.

An introduction to maps using color stereo photographs. An introduction to maps using color stereo photographs. This book is designed to help you learn to read maps by comparing time with stereoscopic aerial color photographs. Spiral bound – 72 pages.

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CONTOURS-STEREOGRAMS

-by Horace MacMahon, Ph.D., Eastern Michigan University

An introduction to reading contours using stereo photographs. Topographic contour maps of typical landforms, shown along with a one color stereo contour map of each area. Helps you to recognize these land forms on flat maps. Spiral bound – 32 pages.

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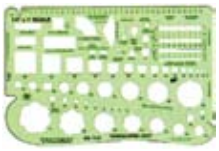
TEMPLATES

TIMELY® YARDSCAPER LANDSCAPES
Symbols for planning yards and garden.
Scale: 1/4" = 1'. Size: 6-3/8" x 9-3/4" x .020"



31T ..... **$7.50 each**

ALVIN® LANDSCAPE DESIGN
Contains various symbols for landscape design.

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TIMELY® 41T SMALL SHAPES
Contains circles, hexagons, triangles, squares, arrows, route symbols, brackets and data block.
Size: 2-1/4" x 5" x .020"

41T ..... **$1.60 each**

RAPID DESIGN® ISOMETRIC PIPING
Contains valves, flanges, elbows, reducers, caps, and pumps
Size: 5-3/16" x 8-1/2" x .030"

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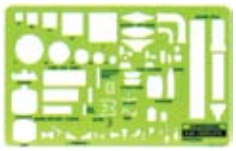
RAPID DESIGN® PROCESS
For flow sheet diagrams in the chemical, foods, petroleum, plastics and allied industries
Size: 5" x 8-3/16" x .030"



44R ..... **$16.95 each**

RAPID DESIGN® PIPE FITTING
Contains symbols for pipe, end bell, flange & fittings in seven sizes
Size: 5" x 8" x .030"

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Contains standard traffic engineering symbols in 24", 36" & 48" scales
Size: 6" x 10-3/8" x .030"

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Contains arrows, north indicators, road signs, & traffic markers
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Contains standard symbols and users legend
Size: 4" x 6-1/2" x .030"

TD654 ..... **$8.50 each**

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